

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR
HUSKY OIL COMPANY

3. ADDRESS OF OPERATOR
6060 S. Willow Drive, Englewood CO 80111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
U-20902

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
13-28

10. FIELD OR WILDCAT NAME
Wildcat - Montezuma Canyon

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 28, T34S, R24E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6802' GR

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>

(other) Casing & Cementing Program

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Through error, the casing and cementing program was not completed on the APTD for the subject well. Husky Oil Company proposes the following:

HOLE	CASING	WEIGHT/FT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	conductor pipe	60'	150 sx
12-1/4"	8-5/8"	24#, H-40	2,500'	1200 sx (circ to surface)
7-7/8"	5-1/2"	17#, K-55	5,900'	300 sx

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct.
SIGNED Vera Chandler TITLE Technical Assistant DATE October 19, 1982

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-20902
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR HUSKY OIL COMPANY		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 6060 S. Willow Drive, Englewood, CO 80111		8. FARM OR LEASE NAME Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FSL & 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$ At proposed prod. zone Same		9. WELL NO. MONTEZUMA #13-28 FEDERAL CANYON
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately 5 miles south, then 3 miles east of Monticello		10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'	16. NO. OF ACRES IN LEASE 1960	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 28, T34S, R24E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None	19. PROPOSED DEPTH 5,900'	12. COUNTY OR PARISH San Juan
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6802' GR		13. STATE Utah
22. APPROX. DATE WORK WILL START* November 15, 1982		

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	conductor pipe		
12-1/4"	8-5/8"	24# H-40	2,500	Circulate to surface
7-7/8"	5-1/2"	17# K-55	5,900	

Husky Oil Company requests permission to drill the captioned well to test the Desert Creek formation. We propose to test all shows of gas or oil deemed worthy of test, and to set casing, as above, or to plug and abandon in accordance with instructions received from U.S. Minerals Management Service.

A cultural resource inventory is being submitted by Powers Elevation

RECEIVED

OCT 20 1982

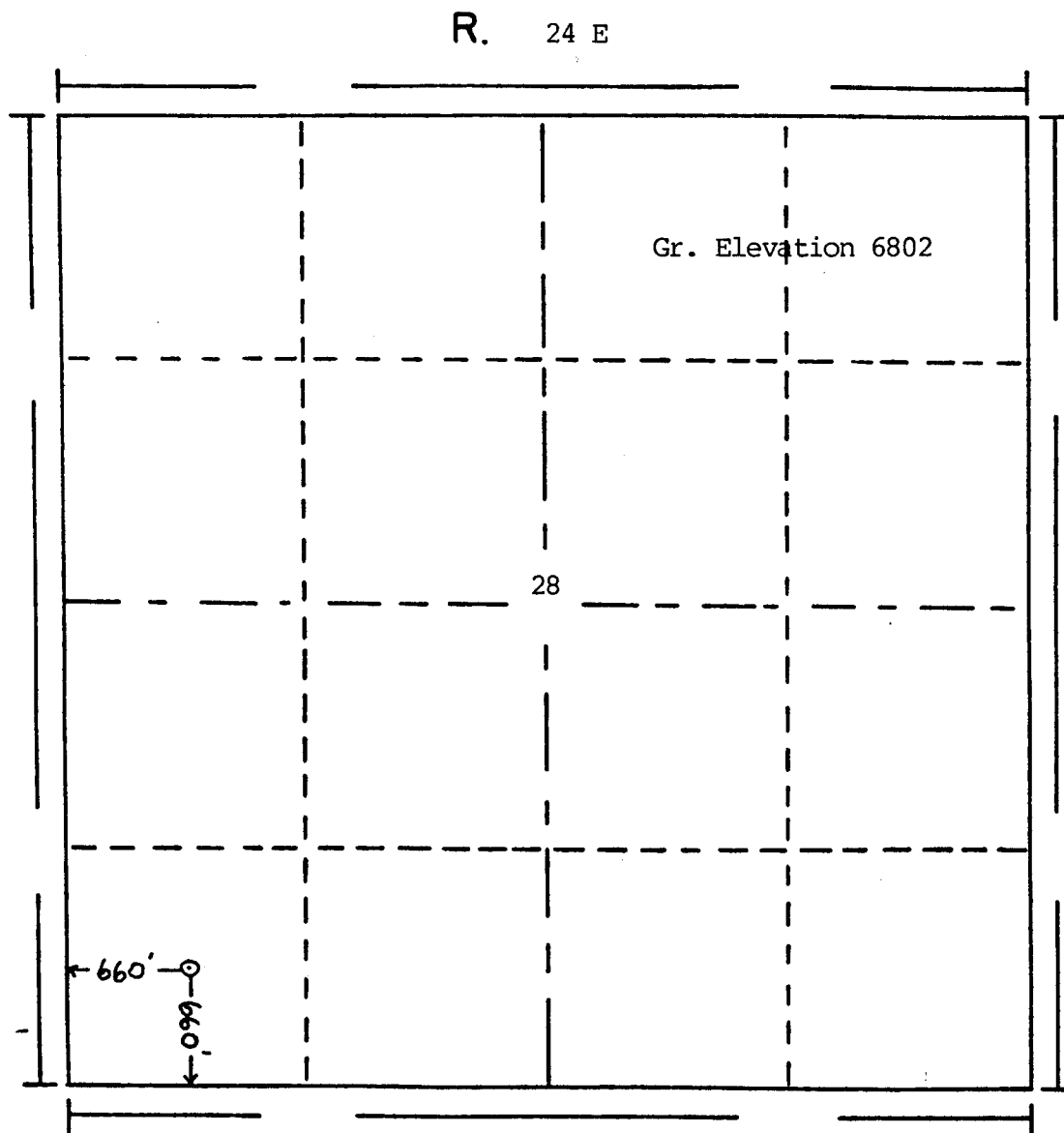
DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Vera Chandler TITLE Technical Assistant DATE October 18, 1982
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:10-21-82
Harmon



T. 34 S

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
has in accordance with a request from Vera Chandler
for Husky Oil Co.
determined the location of 13-28 Federal-Montezuma Canyon
to be 660fsl, 660fwl **Section 28 Township 34 S**
Range 24 E of the Salt Lake Principal Meridian
San Juan **County,** Utah

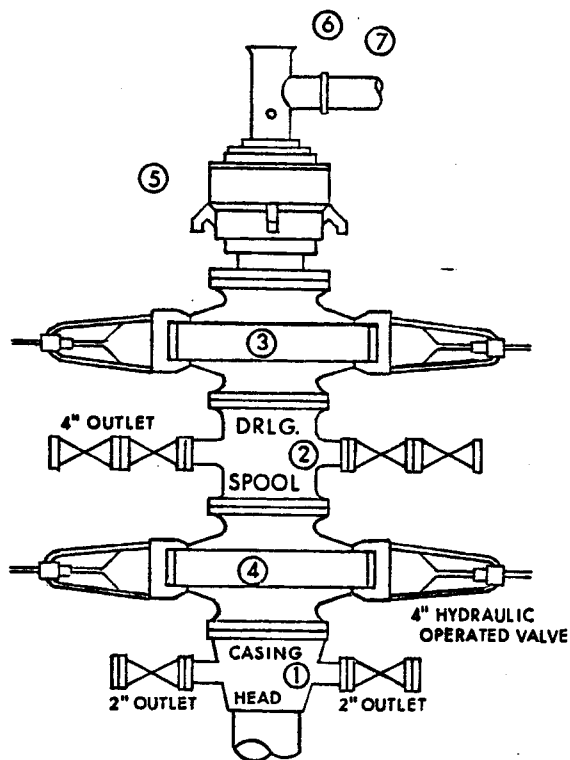
I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
13-28 Federal-Montezuma-Canyon

Date: 9-16-82

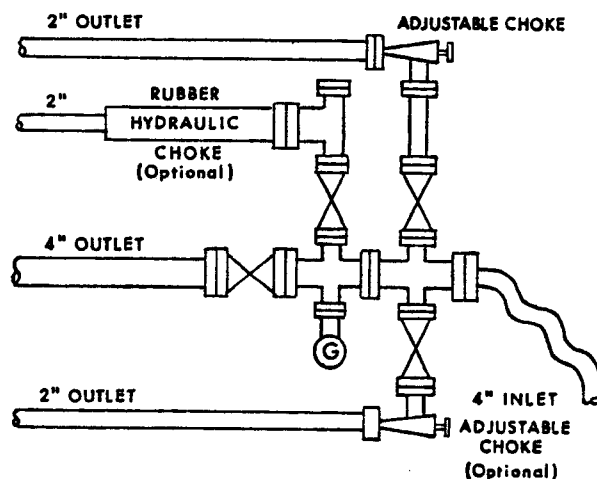
T. Walker
Licensed Land Surveyor No. 2711
State of Utah

BLOWOUT PREVENTER REQUIREMENTS FOR 3000 LB. SERVICE

3M OR 5M RSRA



MINIMUM BOP FOR 3M



CHOKE MANIFOLD FOR 3M

TEST:

AFTER NIPPLING UP ON SURFACE PIPE, BUT BEFORE DRILLING OUT THE CEMENT PLUG, THE B.O.P.'s SHALL BE TESTED TO THE RATED WORKING PRESSURE.

FREQUENCY:

THE B.O.P.'s SHALL BE CYCLED CLOSED AND OPEN EVERY TIME A TRIP IS MADE.

LEGEND:

- ① Casing head w/ 2 - 2" outlets.
- ② Drlg. head w/ 2 flanged outlets.
- ③ Ram-type BOP w/ blind rams.
- ④ Ram-type BOP w/ pipe rams.
- ⑤ Hydril BOP (Annular Type).
- ⑥ Bell nipple.
- ⑦ Flowline
- Ⓒ Pressure gauge.

HUSKY OIL COMPANY
#13-28 FEDERAL MONTEZUMA CANYON
San Juan County, Utah

MC1328

TEN-POINT PROGRAM TO ACCOMPANY FORM 9-331C

1. Surface Formation: Dakota
2. Important Geological Formations:

Navajo	1,030	Lower Ismay	5,600
Chinle	1,970	Gothic Shale	5,650
Hermosa	4,430	Desert Creek	5,690 (+1,123)
Upper Ismay	5,450	Salt	5,840 (+973)

Oil is expected in the Desert Creek formation.

4. Casing Program:

0-60': 16" conductor pipe

0-2,500': 8-5/8", 24#, H-40, ST&C casing.

0-5,900': 5-1/2", 17#, K-55, LT&C casing.

5. Pressure Control:

10" x 8-5/8", weld-on casing head for drilling below surface casing.

10", 900 series, 3000# W.P. dual ram hydraulic blowout preventers for drilling below surface casing. All choke lines, choke manifold, valves, fitting, etc. will have a minimum pressure rating of 3000 psi.

All BOP equipment will be pressure tested to full rated WP or 70% of casing internal yield (whichever is less) prior to drilling out the surface casing shoe.

6. Mud Program:

0-2,500': Mud at company discretion to maintain good hole conditions to run surface casing.

2,500'-TD: Mud weight 8.8# per gallon, water loss 10cc/30 min. or less and viscosity of 35 sec/qt or more.

7. Auxiliary Equipment:

Kelly cock with stabbing valve on floor.

8. Testing, Logging, and Coring:

A. Three DST's are possible: Desert Creek
Ismay (if shows warrant testing)
Honaker Trail " "

B. Logs will be run as follows:

Surface Csg to TD: DIL/SFL; BHC/Sonic
4,000' to TD: CNL/Density

C. Coring: Not planned.

D. Proposed Completion Program:

Perforate desired intervals. Swab, and if necessary,
perform a frac job. Completion and stimulation will be based
on logs and test data, and will be submitted via Sundry.

9. Abnormal Hazards:

Neither abnormal pressures, temperatures, nor potential hazards
such as hydrogen-sulfide gas is expected. The maximum BHP is
a normal gradient of no more than .433 psi/ft and should not
exceed 2555 psi. Sufficient weight material will be on
location should abnormal pressures be encountered, however.

10. Anticipated spud date: November 15, 1982.

11. Anticipated Duration: 30 days drilling

EXHIBITS

- A. Location map with route marked.
- B. Topographic map section.
- C. Proposed drilling facilities.
- D. Location layout.
- E. Contour map of location showing cuts and fills.
- F. Cross sections of location showing drilling pad, cuts
and fills, and cross sections of well pad.

MULTI-POINT REQUIREMENTS TO ACCOMPANY FORM 9-331C

1. Existing Roads

- A. See Exhibits A and B.

B. Main Roads:

From Monticello, Utah: South 4.8 miles, East on county road 2.9 miles to corral; Northwest on old road 500'; Northeast on 700' access road to location. (See Exhibits A & B)

C. Access roads: See Exhibits A & E.

D. See Exhibit F.

E. N/A.

2. Planned Access Roads

A. Width: 18' crowned & ditched. Surface owner requests minimum disturbance. Length: Approximately 700'.

B. Maximum Grade: 10%.

C. Turnouts: None

D. Drainage design: No problems anticipated. See Exhibit E.

E. Culverts, cuts and fills: None anticipated. When road is constructed, dirtworker & county road foreman will determine whether drainage can be kept open without a culvert.

F. Surfacing Materials: None anticipated for drilling phase.

G. Gates, Cattle Guards, Fence Cuts: 1 cattle guard @ location.

H. New road: Centerline flagged.

3. Location of Existing Wells (1-9)

To our knowledge, there are no wells on the lease.

4. Location of Existing or Proposed Facilities:

A. Existing Facilities: None at the present time.

B. Proposed Facilities: Will be determined after well has been completed.

C. Plans for Rehabilitation: The facility area will be rehabilitated by filling the pit, leveling, and reseeding according to BLM stipulations. See Section 10.
A copy of the Surface Use Plan Reclamation Procedures as determined at the on-site on October 13, 1982, are attached.

5. Location and Type of Water Supply

A. We plan to use trucked water.

B. We plan to purchase water for use while drilling from Max Dalton. It will be trucked about 3/4 mile from Ventura Creek.

C. No water well on the location is anticipated.

6. Source of Construction Materials:

A - D. It is anticipated that any construction materials needed for the drilling operation will come from proposed site. Any additional materials will be purchased commercially.

7. Methods of Handling Waste Material Disposal

A. Cuttings: Disposed of in reserve pit and buried.

B. Drilling Fluids: Disposed of in reserve pit and buried after the pit has dried.

C. Produced Fluids: Any liquids produced during completion operations will be produced into tanks, any oil saved, and the water drained to the pit.

D. Sewage: Portable toilets.

E. Garbage and other Waste Material: Will be hauled away.

F. The location will be cleaned upon completion of the well. All pits will be fenced. After the reserve pit has dried, the pits will be filled, waste hauled away or buried (in accordance with environmental regulations, and restoration done as per Section 10.

8. Ancillary Facilities: None.

9. Wellsite Layout

A. through C: See location layout and cross-section exhibits.

D. Pits unlined.

10. Plans for Restoration of the Surface

A. The topsoil will be stripped & stockpiled on the northwest end of the location. Trees will be stockpiled separately. The location will be completely fenced w/4 strand barbed wire fencing & a cattleguard. Upon completion or abandonment of the well, the pits will be allowed to dry, then backfilled, burying waste, leveling, and recontouring as is practical.

B. The topsoil will be spread over that area (excluding area required for production purposes if well is productive), and that area reseeded per BLM specifications.

- C. Upon release of the rig, the entire location will remain fenced & so maintained until cleanup. (See "A" above.)
- D. The pits will have overhead flagging installed if any oil is left on the surface.
- E. Restoration should be completed during the fall of 1983.

11. Other Information

- A. The location lies in a relatively flat area with drainage to the west. Vegetation is cedar & pinon chained, grasses.
- B. Surface owner is Guy C. Tracy, Monticello, UT, 801/587-2314. His father-in-law, Max Dalton, (801/587-2716), runs cattle in the area, and is the contact person regarding all surface disturbance and restoration.
- C. An archaeological survey will be submitted by Powers Elevation. Their archaeologist, Doug Dykeman, attended the on-site.

12. Lessee's or Operator's Representative:

Vera Chandler
6060 S. Willow Drive
Englewood, Colorado 80111
Telephone: 303/850-1462

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operations proposed herein will be performed by Husky Oil Company and its contractors and subcontractors in conformity with this plan and conditions under which it is approved.

October 18, 1982
Date

Vera Chandler
for Murray Brooks
Drilling/Production Manager
HUSKY OIL COMPANY

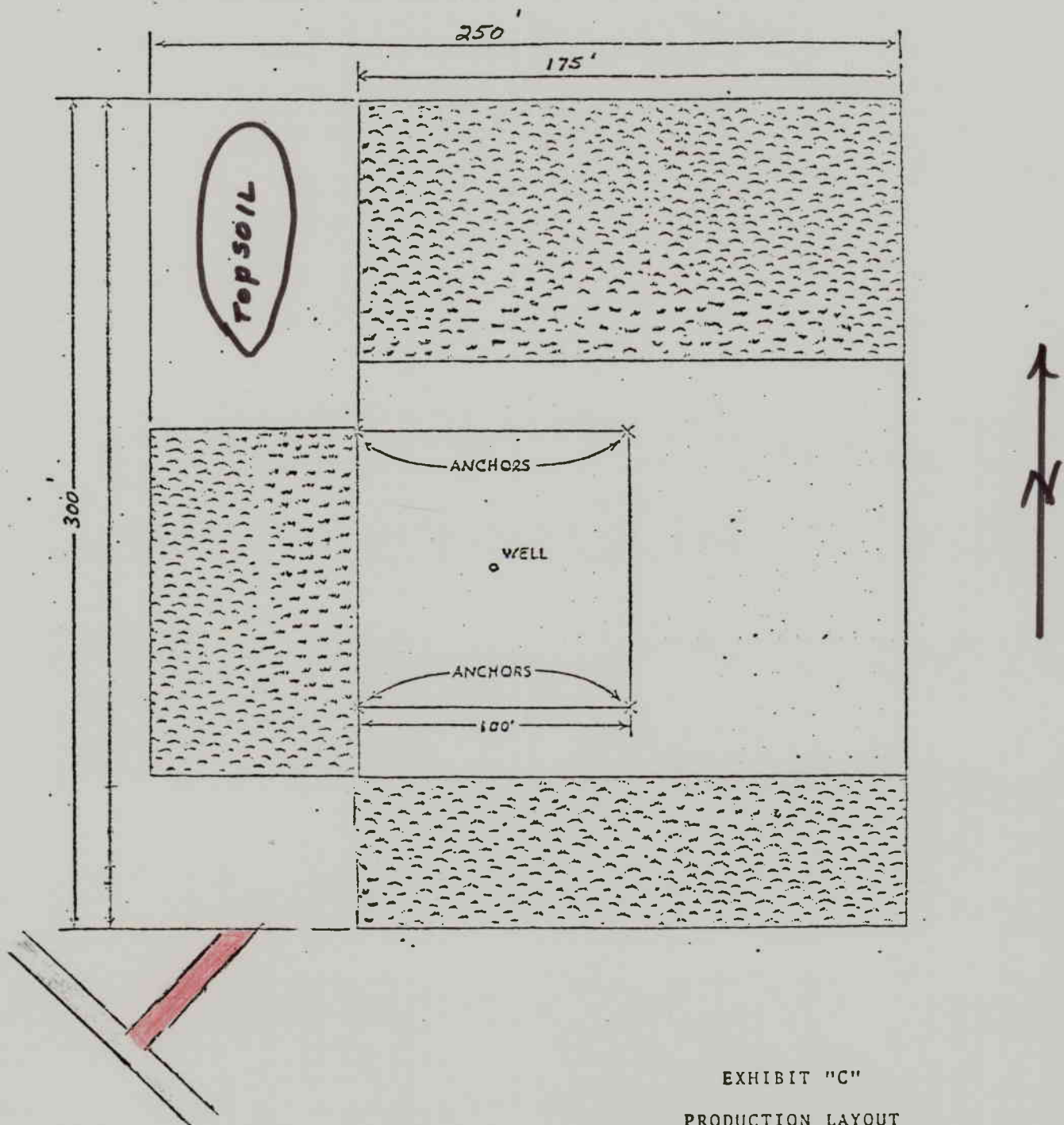

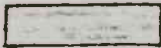



EXHIBIT "C"

PRODUCTION LAYOUT

#13-28 FEDERAL MONTEZUMA CANYON

-  REHABILITATION AREA
-  EXISTING ACCESS
-  PROPOSED ACCESS

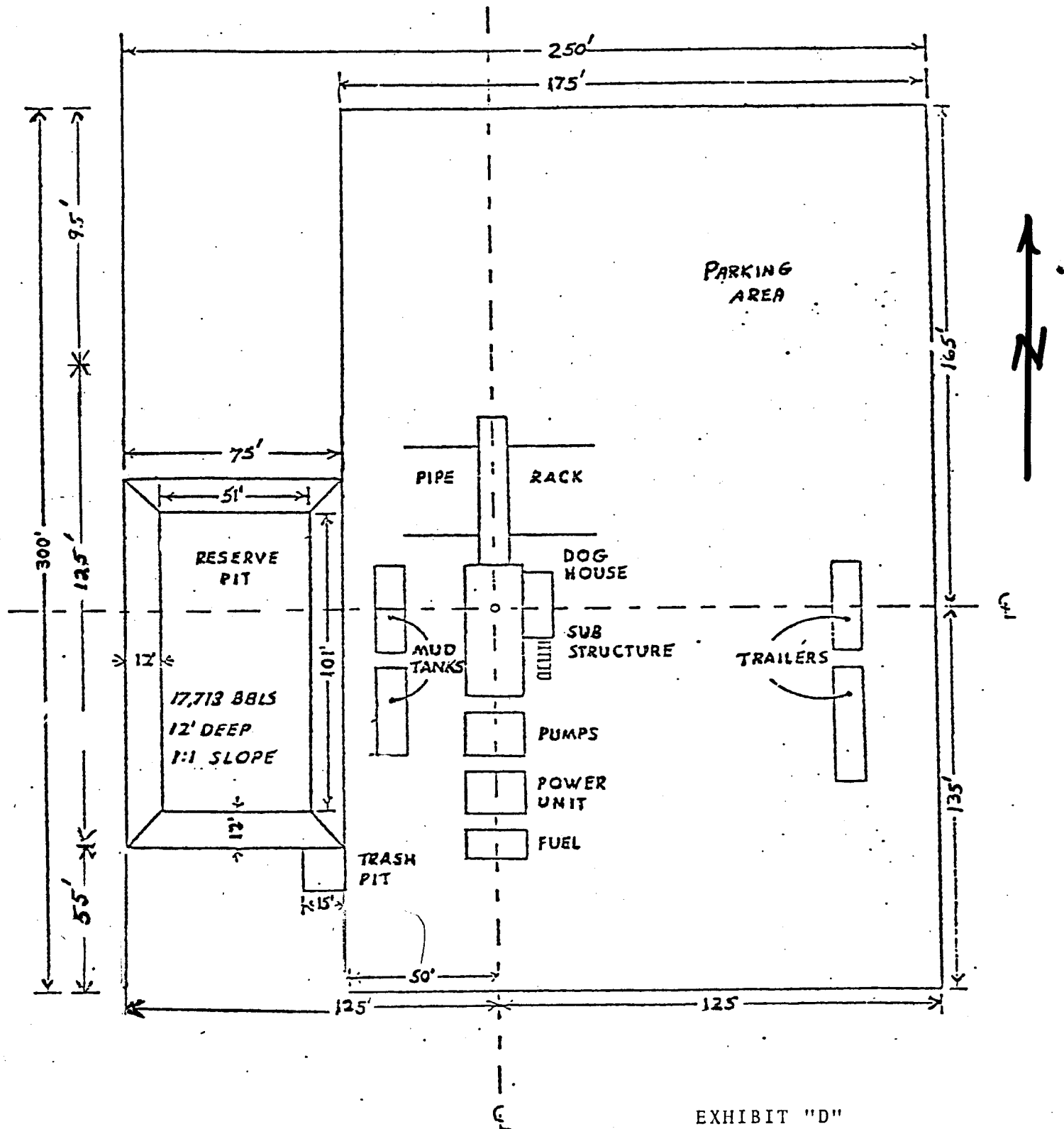


EXHIBIT "D"

DRILLING LAYOUT
(1" = 50")

#13-28 FEDERAL MONTEZUMA CANYON



POWERS ELEVATION

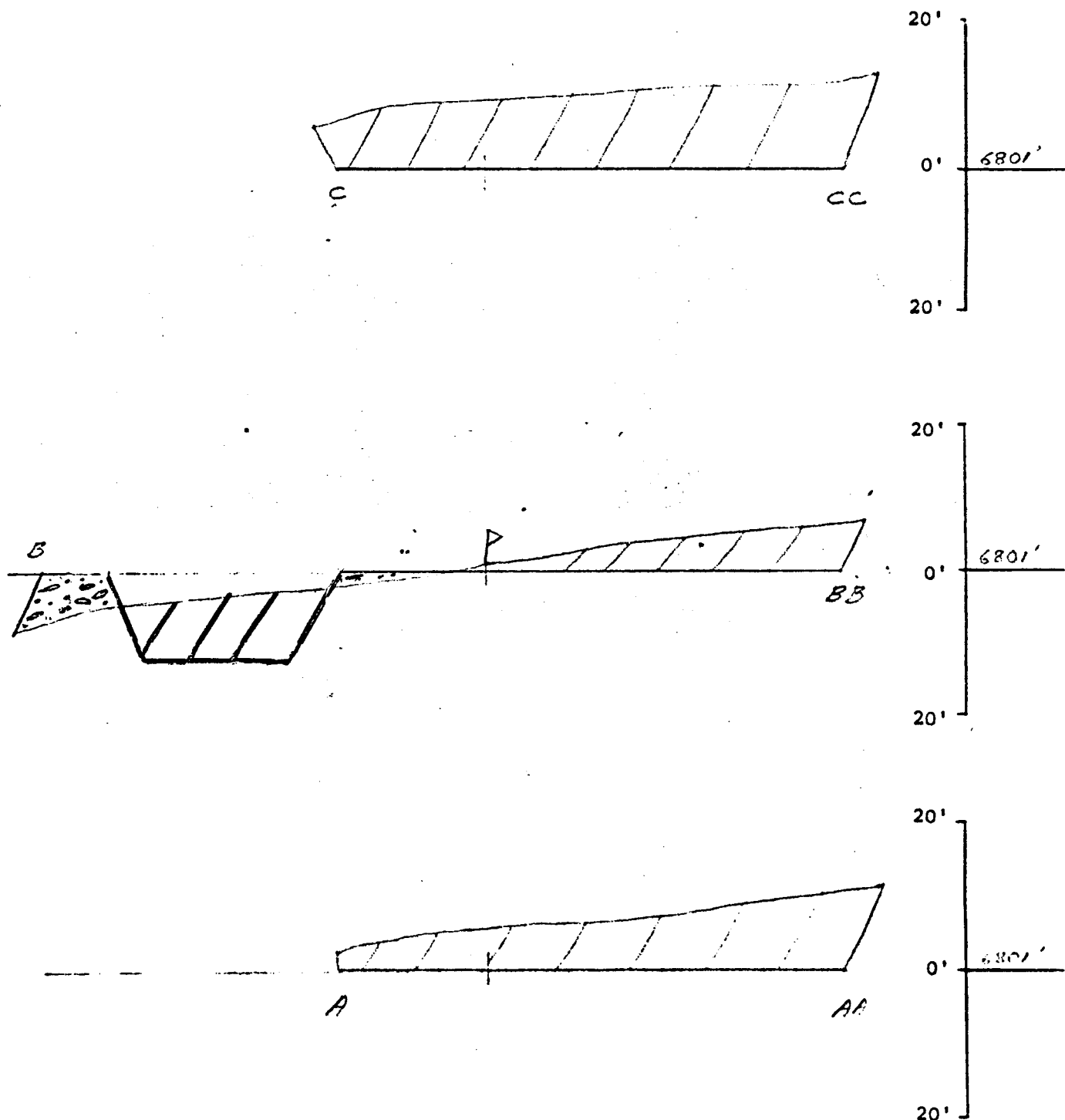
Cut ///////////////
Fill:|||||

Scales: 1"=50'H.
1'=20'V.

EXHIBIT "F"

Well 13-28 Federal

OIL WELL ELEVATIONS — LOCATIONS
ENVIRONMENTAL — ARCHAEOLOGICAL SERVICES
600 SOUTH CHERRY STREET, SUITE 1201
DENVER, COLORADO 80222
PHONE NO. 303/321-2217



SURFACE USE PLAN RECLAMATION PROCEDURES

Pre-drill Inspection Date: 10/13/82

Participants: _____

Operator: HUSKY OIL COMPANY

Donald Englishman
MMS - Durango 303/247-5144

Well Name: #13-28 FEDERAL MONTEZUMA CANYON

HUSKY:
Vera Chandler, Permit Agent
Glynn Mayson, Field Supt.

Well Location: 660' FSL & 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$
Section 28, T34S, R24E
San Juan County, Utah

UTAH DEPT. OF NATURAL RESOURCES
Richard Mann 801/637-3310
Division of Wildlife

Lease Number: U-20902

Merz Hugentobler
San Juan County Road Foreman

Max Dalton 801/587-2716
(representing surface owner)

Al Heaton 303/677-2388
URADO CONSTRUCTION
Glen Benfield 505/827-6276
ATCHISON CONSTRUCTION

Doug Dykeman
POWERS ELEVATION

Construction:

N/A ~~1. The operator or his contractor will contact the San Juan Resource Area Office in Monticello, Utah, (801) 587-2201, 48 hours before beginning any work on public land.~~

✓ 2. The operator will give the dirt contractor a copy of the Surface Use Plan and any additional BLM stipulations before any work.

- ✓ 3. The San Juan County Road Department (801-587-2231, ext. 43), will be contacted before county roads are used.
- ✓ 4. Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer (801) 647-1303 and by receiving permission from the land owner or surface managing agency to use the land containing the water source.
- ✓ 5. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they are subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
- ✓ 6. Improvement to existing access (~~will~~/will not) be necessary and will be limited to a total disturbed width of feet. New construction will be limited to a total disturbed width of ~~24~~ feet. Surfacing material will not be placed on the access road or location without prior BLM approval.
- ✓ 7. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

✓ 8. The top 12 inches of soil material will be removed from the location and stockpiled separate from the trees on the NW side. Topsoil along the access will be reserved in place.

✓ 9. A trash pit will be constructed near the mud tanks with steep sides and dug at least six feet into solid undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in.

✓ 10. The reserve pit (will/will not) be lined with commercial bentonite or plastic sufficient to prevent seepage. At least half of the capacity will be in cut.

~~11. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.~~

Fence the location with cattle guard

✓ 12. A burning permit will be required before burning trash between May 1 and October 31. This can be acquired by contacting the State Fire Warden, John Baker, at (801) 587-2705. — *Trash will be hauled away or buried.*

Reclamation:

✓ 1. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.

- ✓ 2. The operator or his contractor will contact the BLM office in Monticello, Utah, (801) 587-2201, 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- ✓ 3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- ✓ 4. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- ✓ 5. The stockpiled topsoil will be spread evenly over the disturbed area.
- ✓ 6. All disturbed areas will be scarified with the contour to a depth of 6 inches.
- ✓ 7. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4 2-5%	Every 75 feet
5+%	Every 50 feet

- ✓ 8. Seed will be (broadcast/~~drilled~~) between October 1 and February 28 with the follow prescription. When broadcast seeding, a harrow or similar implement will be dragged over the seeded area to assure seed cover.

Surface owner will be contacted prior to seeding - Contact Max Dalton (801) 587-2718

____ lbs/acre Indian ricegrass (Oryzopsis hymenoides)

1 lbs/acre Fourwing saltbush (Atriplex canescens)

____ lbs/acre Sand dropseed (Sporobolus cryptandrus)

____ lbs/acre Green ephedra (Ephedra viridis)

____ lbs/acre Cliffrose (Cowania mexicana)

4 lbs/acre Crested wheatgrass (Agropyron desertorum)

____ lbs/acre Western wheatgrass (Agropyron smithii)

____ lbs/acre Alkali sacaton (Sporobolus airoides)

____ lbs/acre Shadscale (Atriplex confertifolia)

____ lbs/acre Curleygrass (Hilaria jamesii)

____ lbs/acre Globemallow (Sphaeralcea ambigua)

____ lbs/acre Desert bitterbrush (Purshia glandulosa)

- ✓ 9. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.

Production:

- ✓ 1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be re-claimed as described in the reclamation section. Enough topsoil

will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

- ✓ 2. All above-ground production facilities will be painted a neutral color to be approved by the BLM.
- ✓ 3. The access shall be upgraded to BLM Class III road specifications.

*Surface owner wants minimum
amount of disturbance for road.*

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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U-20902

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Federal

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#13-28 FEDERAL CANYON

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Wildcat

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AND SURVEY OR AREA

Section 28, T34S, R24E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐SALT LAMP ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

HUSKY OIL COMPANY

3. ADDRESS OF OPERATOR

6060 S. Willow Drive, Englewood, CO 80111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface660' FSL & 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 5 miles south, then 3 miles east of Monticello

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

1960

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

5,900'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6802' GR

22. APPROX. DATE WORK WILL START*

November 15, 1982

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	conductor pipe		
12-1/4"	8-5/8"	24# H-40	2,500	Circulate to surface
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Husky Oil Company requests permission to drill the captioned well to test the Desert Creek formation. We propose to test all shows of gas or oil deemed worthy of test, and to set casing, as above, or to plug and abandon in accordance with instructions received from U.S. Minerals Management Service.

A cultural resource inventory is being submitted by Powers Elevation.

Complimentary copy sent to: Donald Englishman
MMS - Durango, CO
Byron Wood
BLM - Monticello, UT

RECEIVED
NOV 08 1982

DIVISION OF

OIL, GAS AND MINES

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

Vera Chandler (303) 850-1462

Technical Assistant

DATE October 18, 1982

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

DATE

E. W. Guynn
District Oil & Gas Supervisor

DATE

NOV 5 1982

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY.FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

State Oil & Gas

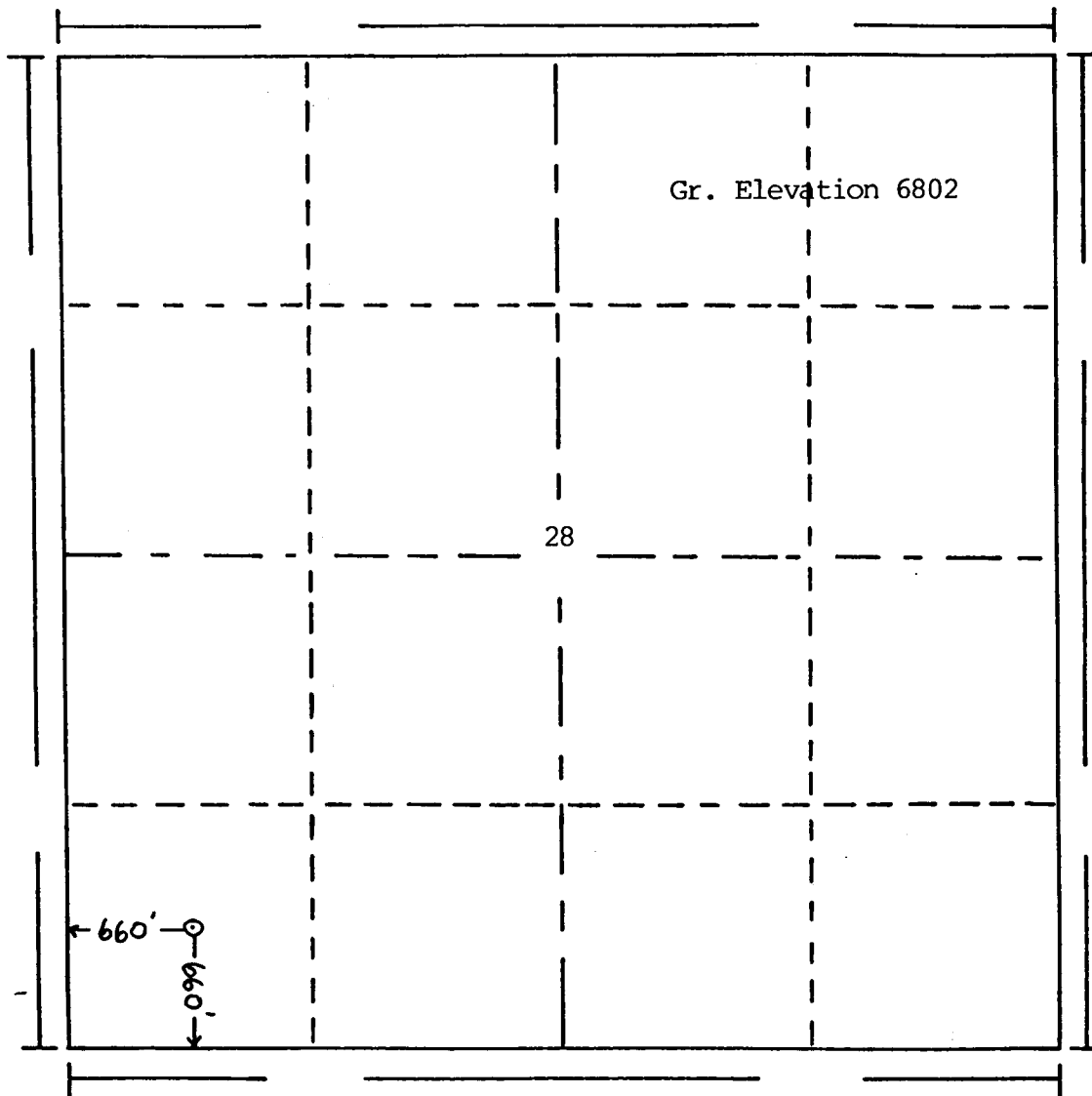
Husky Oil Company
Well No. 13-28
Section 28, T.34S., R.24E.
San Juan County, Utah
Lease U-20902

Supplemental Stipulations

- 1) Adequate and sufficient electric/radioactive logs will be run to locate and identify the saline minerals in the Paradox formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the saline minerals resource. Surface casing program may require adjustment for protection of fresh water aquifers.
- 2) Adequate and sufficient electric/radioactive logs will be run to locate and identify anticipated coal beds in the Dakota. Please also provide two copies of drilling logs. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the coal resource. Surface casing program may require adjustment for protection of fresh water aquifers.



R. 24 E



T. 34 S

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
has in accordance with a request from Vera Chandler
for Husky Oil Co.
determined the location of 13-28 Federal-Montezuma Canyon
to be 660fsl, 660fwl Section 28 Township 34 S
Range 24 E of the Salt Lake Principal Meridian
San Juan County, Utah

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of

13-28 Federal-Montezuma-Canyon

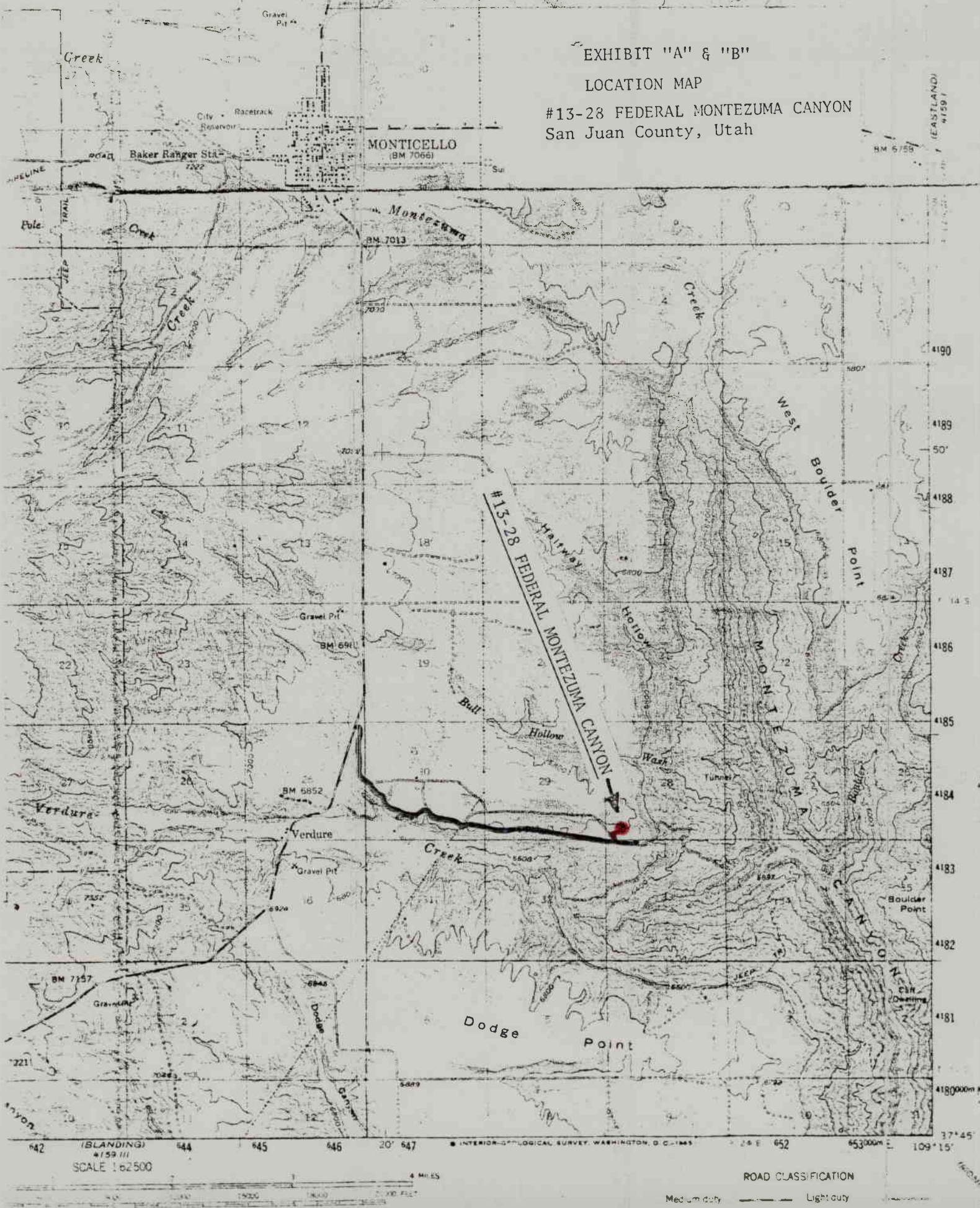
Date: 9-16-82

T. T. T. T.
Licensed Land Surveyor No. 2711
State of Utah

EXHIBIT "A" & "B"

LOCATION MAP

#13-28 FEDERAL MONTEZUMA CANYON
San Juan County, Utah



Your Application for Permit to Drill also included a submittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

- (1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.
- (2) Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs must be housed and/or fenced.
- (3) All disturbed areas not required for operations will be rehabilitated.
- (4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.
- (5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.
- (6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.
- (7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.
- (8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.
- (9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.
- (10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.
- (11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes, but is not limited to, such items as road construction and maintenance, handling of top soil and rehabilitation.
- (12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.

OPERATOR HUSKY OIL CO DATE 10-21-82

WELL NAME #13-28 FED MONTEZUMA CANYON

SEC SW SW 28 T 34S R 24E COUNTY SAN JUAN

43-037-30827
API NUMBER

FED
TYPE OF LEASE

POSTING CHECK OFF:

☐

INDEX

☒

HL

☐☐

NID

☒

PI

☐☒

MAP

☒☐

PROCESSING COMMENTS:

NO NEARBY WELLS

RJT ✓

APPROVAL LETTER:

SPACING:

☐

A-3

UNIT

☐

c-3-a

CAUSE NO. & DATE

☒

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

☐ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION *FED*

☒ VERIFY ADEQUATE AND PROPER BONDING *FED*

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER NO

☐ UNIT NO

☒ c-3-b

☐ c-3-c

☒ OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.

14 POTASH -

October 21, 1982

Husky Oil Company
6060 South Willow Drive
Englewood, Colorado 80111

RE: Well No. 13-28 Fed. Montezuma Canyon
SWSW Sec. 28, T. 34S, R. 24E
San Juan County, Utah

Gentlemen :

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3(b), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer
Office: 533-5771
Home: 571-6068

OR

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30827.

Sincerely,


Norman C. Stout
Administrative Assistant

NCS/as
cc: Minerals Management Service
Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MINERALS MANAGEMENT
SERVICE
OIL & GAS OPERATIONS
RECEIVED

Form Approved.
Budget Bureau No. 42-11424

OCT 22 1982

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR
HUSKY OIL COMPANY

3. ADDRESS OF OPERATOR
6060 S. Willow Drive, Englewood CO 80111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
U-20902 SALT LAKE CITY, UTAH

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
13-28

10. FIELD OR WILDCAT NAME
Wildcat - Montezuma Canyon

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 28, T34S, R24E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6802' GR

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>

(other) Casing & Cementing Program

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Through error, the casing and cementing program was not completed on the APTD for the subject well. Husky Oil Company proposes the following:

HOLE	CASING	WEIGHT/FT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	conductor pipe	60'	150 sx
12-1/4"	8-5/8"	24#, H-40	2,500'	1200 sx (circ to surface)
7-7/8"	5-1/2"	17#, K-55	5,900'	300 sx

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct.
SIGNED Vera Chandler TITLE Technical Assistant DATE October 19, 1982

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐ other ☐
well well

2. NAME OF OPERATOR
HUSKY OIL COMPANY

3. ADDRESS OF OPERATOR
6060 S. Willow Drive, Englewood, CO 80111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Spud & Set Surface Casing

SUBSEQUENT REPORT OF:

RECEIVED

NOV 26 1982
(NOTE: Report results of multiple completion or zone change on Form 9-330.)

DIVISION OF
OIL, GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Set 60', 20" conductor pipe. Cmt'd in place.

Spudded well @ 2:45 a.m. 11/17/82.

Ran 57 jts 8-5/8", 24#, K-55, ST&C casing. Set @ 2180' KB.

Cmt'd w/800 sx Halliburton Lite w/10# Gilsonite + 1/4 pps Flocele,
followed w/200 sx Class "B" + 2% CaCl₂. Plug down @ 2:00 p.m. 11/20/82.
Partial to no returns.

11/21/82 - Ran 360' 1 $\frac{1}{4}$ " tbg. Pumped 105 sx Class "B" w/3% CaCl₂. Some returns.

11/22/82 - Set 1 $\frac{1}{4}$ " tbg @ 340'. Cmt'd to surface w/15 sx Class "B" w/3% CaCl₂.
Tested BOE to 1500 psi.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct.

SIGNED Vera Chandler TITLE Technical Assistant

DATE November 24, 1982

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator HUSKY OIL COMPANY Representative Glen Mayson

Well No. 13-28 Location SW ¼ SW ¼ Section 28 Township 34S Range 24E

County San Juan Field Wildcat State Utah

Unit Name and
Required Depth _____ Base of fresh water sands _____

T.D. 6155 Size hole and Fill per sack _____ " _____ ' and Top _____ Mud Weight _____ #/gal. _____ ' _____

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
<u>8 5/8</u>	<u>2180'</u>	<u>Surface</u>		<u>1. 6000'</u>	<u>5800'</u>	<u>As Necessary</u>
				<u>2. 3000'</u>	<u>2800'</u>	<u>As Necessary</u>
<u>Formation</u>	<u>Top</u>	<u>Base</u>	<u>Shows</u>	<u>3. 2300'</u>	<u>2100'</u>	<u>As Necessary</u>
				<u>4. As surface w/marker</u>		<u>20 Sacks</u>

REMARKS

DST's, lost circulation zones, water zones, etc., _____

Plugging procedures provided and approved by MMS, Mr. Assad Raffoul.

Approved by R. J. Firth Date 12-8-82 Time _____ a.m.
p.m.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well <input checked="" type="checkbox"/> gas well <input type="checkbox"/> other <input type="checkbox"/>
2. NAME OF OPERATOR HUSKY OIL COMPANY
3. ADDRESS OF OPERATOR 6060 S. Willow Drive, Englewood, CO 80111
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 660' FSL & 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$ AT TOP PROD. INTERVAL: AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input checked="" type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	<input type="checkbox"/>

5. LEASE U-20902
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Federal
9. WELL NO. #13-28 FEDERAL MONTEZUMA CANYON
10. FIELD OR WILDCAT NAME Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 28, T34S. R24E
12. COUNTY OR PARISH San Juan
13. STATE Utah
14. API NO. 43-037-30827
15. ELEVATIONS (SHOW DF, KDB, AND WD) 6802' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Husky Oil Company requests permission to plug and abandon the captioned well in accordance with instructions received 12/7/82 from Assad Ruffaul, Minerals Management Service, Salt Lake City, and Ron Firth, Utah Division of Oil, Gas & Mining, Salt Lake City.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 12/13/82
BY: [Signature]

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Vera Chandler TITLE Technical Assistant DATE December 9, 1982

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐ other ☐
well well

2. NAME OF OPERATOR
HUSKY OIL COMPANY

3. ADDRESS OF OPERATOR
6060 S. Willow Drive, Englewood, CO 80111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input checked="" type="checkbox"/>
(other)	<input type="checkbox"/>		<input type="checkbox"/>

5. LEASE

U-20902

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#13-28 FEDERAL MONTEZUMA CANYON

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 28, T34S, R24E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30827

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6802' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Subject well was plugged and abandoned on 12/8/82 in accordance with instructions received from Assad Ruffaul, MMS, Salt Lake City:

Plug #1	5800-6000'	-	75 sx cement
Plug #2	2800-3000'	-	93 sx cement
Plug #3	2100-2300'	-	88 sx cement
Plug #4	Surface	-	20 sx cement & dry hole marker

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct.

SIGNED Vera Chandler TITLE Technical Assistant DATE December 9, 1982

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

CL-27

WELL REPORT

HUSKY OIL COMPANY
13-28 FEDERAL - MONTEZUMA CANYON
SW SW SEC. 28, T34S R24E
SAN JUAN COUNTY, UTAH

Geologist- JOHN ISHAM

RECEIVED

JAN 6 1983

DIVISION OF
OIL, GAS & MINING



**Continental
Laboratories**

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DEVIATION SURVEY -----	13
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DRILL TIME LOG -----	Back Cover



RESUMÉ

CL-29

OPERATOR:	Husky Oil Company
ADDRESS:	6060 S. Willow Dr., Englewood, CO 80111
WELL NAME & NO:	13-28 Federal - Montezuma Canyon
LOCATION:	SW SW Sec. 28, T34S R24E
COUNTY:	San Juan
STATE:	Utah
ELEVATION:	G.L. 6802 K.B. 6816
SPUD DATE:	16 November 1982
T.D. DATE:	6 December 1982
CONTRACTOR:	
COMPANY:	Coleman Drilling Company
EQUIPMENT:	Ideco Rambler
RIG NO:	3
PUMPS:	Emsco D550
DRILL PIPE:	4 1/2" - 16.6 # - Grade E - X Hole
DRILL COLLARS:	6 1/4" X Hole
TOOLPUSHER:	Glen Storie
DRILLERS:	G. Davis/F. Madrid/G. Forsythe/C. Hamlin
DRILLING FOREMAN:	Glynn Mayson
DRILLING FLUID:	
COMPANY:	Drilling Mud Inc.
MUD TYPE:	Freshwater Gel
ENGINEER:	K. Hall
H2S SAFETY PROGRAM:	
COMPANY:	N/A
TECHNICIANS:	
GAS DETECTION:	
COMPANY:	EG&G Continental Laboratories
ANALYSTS:	C. Starr/J. Frank
INSTRUMENTATION:	Total Gas-Catalytic Filament Detector Hydrogen Flame Chromatograph
GEOLOGIST:	S. Finley (Husky) J. Isham (EG&G Continental Laboratories)
SAMPLE PROGRAM:	30' surface casing to Honaker Trail 15' to Top Upper Ismay - 10' to T.D.

RESUME

DRILL STEM TEST:

COMPANY:

Halliburton - Farmington, NM

ENGINEER:

D. Gunn

ELECTRIC LOGS:

COMPANY:

Schlumberger

LOG TYPES:

DIL-SFL/BHC/CNL FDC

ENGINEER:

P. Lewand/T. Link

DIRECTIONAL DRILLING:

COMPANY:

N/A

ENGINEER:

HOLE SIZE:

12 1/4" to 2180' 7 7/8" to T.D.

CASING:

SURFACE:

8 5/8" CSG

INTERMEDIATE:

Not Set

PRODUCTION:

Not Set

DRILLING TIME: (DAYS)

22

TOTAL DEPTH:

Driller 6157' E-Log 6155'

BOTTOM HOLE FORMATION:

Akah-Salt

STATUS OF WELL:

Waiting to Plug and Abandon

GEOLOGICAL SUMMARY

Husky Oil Company's 13-28 Federal Montezuma Canyon spudded on November 16, 1982 and reached a total depth of 6157' on December 6, 1982. The primary target was a reef structure in the Desert Creek Formation, with secondary zones of interest in the Honaker Trail and Upper Ismay Formations.

A minor hydrocarbon show was encountered from 4718'-4728' in the Honaker Trail and was determined to be of no economic significance.

Source rock was encountered from 5930' to 5970', in the Hovenweep Shale. Drill Stem Test #1 from 5818' to 5962' in the basal Upper Ismay, Hovenweep, and Upper Lower Ismay indicated very tight rock.

A minor gas show was encountered from 6072' to 6076' in the Desert Creek Formation. Drill Stem Test #2, from 6053'-6087', in the Desert Creek indicated tight rocks. Minor amounts of nonflammable gas, possibly carbon dioxide, did reach the surface during the drill stem test. The well was subsequently plugged and abandoned.

13-28 Federal-Montezuma Canyon encountered significant reef material only in the Hovenweep with traces in the Akah. This material implies proximity to a biologic reef, though not necessarily in the Desert Creek Formation.

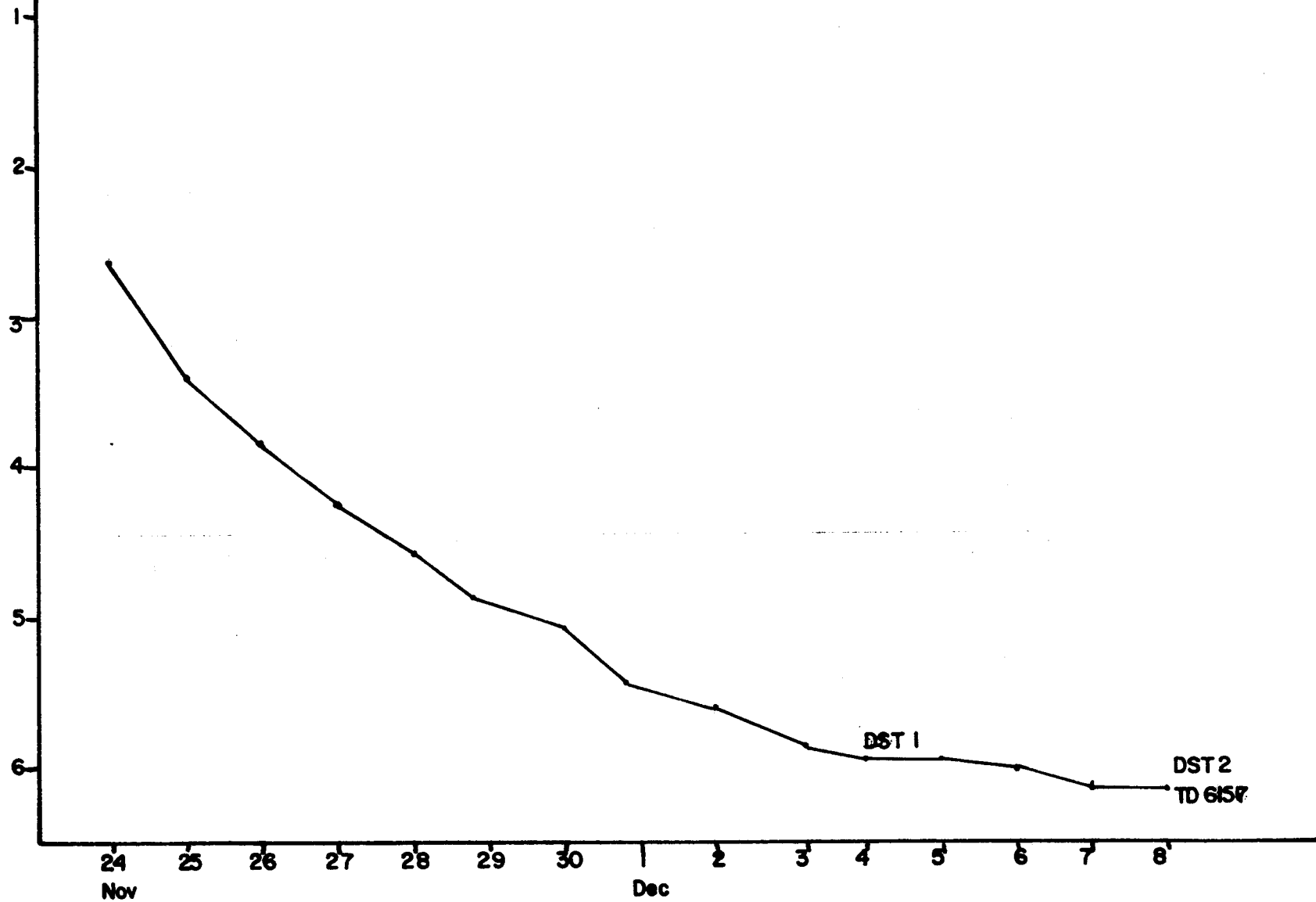
It is recommended that the samples be reviewed by a paleo-ecologist and/or paleontologist with an eye to isolating local reef buildup.

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File: CR 154 Page 4 of 17

thous.
feet

DATE VS. DEPTH CURVE



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FORMATION TOPS

PERIOD	PROGNOSIS		SAMPLE DEPTH	WIRELINE	
	GROUP	SUBSEA		KB	SUBSEA
FORMATION	MEMBER	ZONE			
Triassic					
	Navajo	1156'	+5660'	NA	
	Chinle	2096'	+4720'	NA	
	Shinarump	2685'	+4131'	NA	2691' +4125'
	Moenkopi	2770'	+4046'	NA	2758' +4058'
Permian					
	Cutler	2885'	+3931'	NA	2828' +3988'
Pennsylvanian					
	Upper Hermosa Group				
	Honaker Trail	4556'	+2260'	4625'	4629' +2187'
	Middle Hermosa Group				
	Paradox Formation				
	Ismay Zone				
	Upper Ismay	5576'	+1240'	5780'	5782' +1034'
	Hovenweep			5880'	5878' +938'
	(A Zone Shale)				
	Lower Ismay	5726'	+1090'	5970'	5952' +864'
	Gothic Shale	5776'	+1040'	6005'	6000' +816'
	(B Zone Shale)				
	Desert Creek Zone				

File:

CR 154

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Laboratories

FORMATION TOPS

<u>PERIOD</u> <u>GROUP</u>	<u>PROGNOSIS</u>		<u>SAMPLE</u> <u>DEPTH</u>	<u>WIRELINE</u>		
	<u>KB</u>	<u>SUBSEA</u>		<u>KB</u>	<u>SUBSEA</u>	
	<u>FORMATION</u>					
	<u>MEMBER</u>					
	<u>ZONE</u>					
	Desert Creek		5816'	+1000'	6050'	6036' +780'
	Chimney Rock		6110'		6107'	+709'
	(C Zone Shale)					
	Akah Zone					
	Akah		5963'	+853'	6130'	6124' +692'
	Salt				6154'	

File:

CR 154

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of

17

LITHOLOGY

Geological supervision commenced at 4000' in the Permian, Cutler Formation.

4000'

CUTLER

SANDSTONE, SHALE, SILTSTONE

predominately orangish red to brownish red, continental

4625'

HONAKER TRAIL

4625'-4780'

LIMESTONE - predominately white to light grey, dense to crystalline, with a faint sulphur odor from 4690' to 4750', commonly with fossil fragments and microfossils

4780'-5075'

LIMESTONE - grey to dark grey, commonly with fossil fragments, traces of chert, and traces coal and carbonized wood; interbedded Siltstone-grey, calcareous, and Sandstone fine grained

5075'-5300'

LIMESTONE - light to dark, with interbedded dark grey to black shaly dolomites and dolomitic shales

5300'-5350'

INTERBED LIMESTONE - brown micaceous Siltstones, Sandstone and clay with traces of opaque chert and subwaxy clay

5350'-5530'

INTERBED Limestone - grey, dark shaly Dolomite, and dolomitic Shale with some Siltstones, commonly with fossil fragments and traces of chert.

5530'-5780'

LIMESTONE - grey, crystalline, with white chalky anhydritic limestone, increasingly interbedded with dolomitic shale and shaly dolomite at the base, commonly with fossil fragments and traces of chert, clear crystalline quartz appeared near the base

5780'

UPPER ISMAY

5780'-5800'

LIMESTONE - grey, interbedded with minor amounts of white anhydrite, commonly fossiliferous

5800'-5880'

LIMESTONE - light grey to white, crystalline, with some interbedded, chalky, and anhydritic Limestones, and a thin basal zone of very fine grained clastics

5880'

HOVENWEEP



LITHOLOGY

5880'-5905' SHALE - very dark grey to black, carbonaceous, dolomitic, commonly with calcite filled fractures and fossil fragments at the upper contact

5905'-5935' SHALE - black, commonly with reef detritus (trace plant remains - algal limestone - abundant fossil fragments), with thin interbedded Limestones and Dolomites, and fine grained clastic material and traces of chert

5935'-5970' SHALE - black, carbonaceous, with traces of fossil fragments

5970' LOWER ISMAY

5970'-5990' ANHYDRITE - white, subcrystalline to dense

5990'-6005' LIMESTONE - medium to dark grey, with interbedded shaly Dolomite, and traces of chert, clear quartz crystals and anhydrite

NOTE: Lost circulation (@ 200 bbls drilling fluid) at about 6000' - samples below this depth were quite poor and contained abundant lost circulation material

6005' GOTHIC

6005'-6050' SHALE - black, carbonaceous with some interbedded dark grey shaly Dolomites, silty at the base

6050' DESERT CREEK

6050'-6060' ANHYDRITE - white to light grey, subcrystalline to chalky

6060'-6085' LIMESTONE - dark grey, dense, shaly, with thin interbedded Siltstone and Anhydrite

6085'-6110' DOLOMITE - black to dark grey, crystalline, with some interbedded, clean, grey limestone, with basal traces of anhydrite and chert fossil fragments

6110' CHIMNEY ROCK

6110'-6130' SHALE - black, carbonaceous, dolomitic

6130' AKAH

6130'-6154' SHALE - interbedded, dark, with dirty mixed carbonates, traces of fossil fragments, and algal Limestone

6154'-6157' SALT - Inferred from drilling rate

CHRONOLOGICAL SUMMARY

MIDNIGHT DEPTH
FOOTAGE

DATE	24 HRS. ()	OPERATION	REMARKS
BEGIN GEOLOGICAL SUPERVISION @ 4000'			
26NOV82	3821'	DRILLING	0000-0345 WOB 40 @ 70 RPM PP 1350 @ 60 SPM
		RIG WORK	0345-0400 TIGHTEN BOP STACK
		DRILLING	0400-1345 WOB 40 @ 70 RPM
		RIG WORK	1345-1415 WORK ON PUMP
		DRILLING	1415-1515 WOB 40 @ 70 RPM
		TRIP (4162')	1515-1730 TRIP FOR HOLE IN DRILL PIPE
		DRILLING	1730-2045 WOB 40 @ 70 RPM
		SURVEY	2045-2130 MISRUN @ 4190
		DRILLING	2130-2230 WOB 40 @ 70 RPM
		SURVEY	2230-2300 BROKE WIRELINE
		TRIP (4260')	2300-0015 PULL 539'
			WIRELINE OUT OF COLLARS 1 3/4" @ 4220'
27NOV82	4260' (799')		0015-0230 TRIP INTO HOLE 0230-0300 REPLACE JERK CHAIN 0300-0345 COMPLETE TRIP INTO HOLE 0345-0415 REPAIR PUMP
		DRILLING	0415-0600 DRILLING WITH PLUGGED JET WOB 40 @ 70 RPM PP 1350 @ 60 SPM
		TRIP (4319')	0600-1130 TRIP FOR PLUGGED BIT
28NOV82	4570' (310')	DRILLING	1130-1215 WOB 40/45 @ 60/65 RPM PP 1400 @ 60 SPM
		SURVEY	1215-1300 MISRUN
		DRILLING	1300-1330 WOB 40/45 @ 60/65 RPM
		SURVEY	1330-1415 MISRUN

CHRONOLOGICAL SUMMARY

		DRILLING	1415-1715 WOB 40/45 @ 60/65 RPM
		SURVEY	1715-1830 3/4" @ 4717'
29NOV82	4842' (272')	DRILLING	1830-1015 WOB 40/45 @ 60/65 RPM PP 1400 @ 60 SPM
		SHORT TRIP (4975')	1015-1500 TRIP FOR HOLE IN DRILL PIPE
		DRILLING	1500-2130 WOB 40/45 @ 60/65 RPM
		CIRCULATE	2130-2250 CIRCULATE FOR SAMPLES
30NOV82	5080' (238')	DRILLING	2250-0000 WOB 40/45 @ 60/65 RPM PP 1475 @ 60 SPM
1DEC82	5427' (347')	DRILLING	0000-1230 WOB 40/45 @ 60/65 RPM PP 1475 @ 60 SPM
		CIRCULATE	1230-1315 CIRCULATE FOR SAMPLES @ 5578'
		DRILLING	1315-1430 WOB 40/45 @ 60/65 RPM
		SURVEY	1430-1445 2 1/2" @ 5593'
		TRIP (5593')	1445-2115 TRIP FOR BIT #7 REED FP53
2DEC82	5606' (179')	DRILLING	2115-0130 WOB 40 @ 60/65 RPM PP 1500 @ 60 SPM 0130-0200 WORK PIPE FOR TORQUE IN STRING 0200-1430 WOB 40/45 @ 60/65 RPM
		CIRCULATE	1430-1530 CIRCULATE FOR SAMPLES
3DEC82	5866' (260')	DRILLING CIRCULATE	1530-0000 WOB 40 @ 65 RPM 0000-0115 CIRCULATE FOR SAMPLES
		DRILLING	0115-0545 WOB 40 @ 65 RPM
		CIRCULATE	0545-0730 CIRCULATE FOR SAMPLES

CHRONOLOGICAL SUMMARY

		DRILLING	0730-1600 WOB 40 @ 65 RPM
		CIRCULATE	1600-1730 CIRCULATE FOR SAMPLES @ 5942'
		DRILLING	1730-1800 WOB 40 @ 60 RPM
		CIRCULATE	1800-1930 CIRCULATE FOR SAMPLES
		DRILLING	1930-2000 WOB 40 @ 60 RPM
		CIRCULATE	2000-2130 CIRCULATE FOR SAMPLES @ 5955'
4DEC82	5955' (89')	TRIP (5955')	2130-0200 TRIP OUT OF HOLE FOR DST #1 SURVEY 3 ⁰ @ 5955' 0200-0430 PICK UP TEST TOOLS 0430-0800 TRIP INTO HOLE
		DST #1	0800-1215 RUN DST #1 1215-1645 TRIP OUT WITH TEST TOOLS
		RIG WORK	1645-1730 REPAIR ROTARY LOCK 1730-2030 TRIP INTO HOLE
		DRILLING	2030-2100 WOB 40 @ 60 RPM
		CIRCULATE	2100-2245 CONDITION HOLE FOR ELECTRIC LOGS
5DEC82	5967' (12')	TRIP (5967')	2245-0230 TRIP OUT FOR ELECTRIC LOGS 0230-0400 WAITING ON LOGGERS
		LOGGING	0400-0845 RUN E LOGS 0845-1300 TRIP INTO HOLE
		DRILLING	1300-1700 WOB 45 @ 65 RPM PP 1500 @ 60 SPM
5DEC82	6007' (40')	LOST CIRCULATION	1700-0600 LOOSE 200 BBLs MUD @ 6000' - TRIP OUT OF HOLE - MIX MUD - REGAINED CIRCULATION 0600-0945 TRIP INTO HOLE WITH CIRCULATION AFTER EVERY 15 STANDS
		DRILLING	0945-1315 WOB 45 @ 65 RPM



CHRONOLOGICAL SUMMARY

PP 600 @ 60 SPM

		CIRCULATE	1315-1445 CIRCULATE FOR SAMPLES
		DRILLING	1445-1745 WOB 45 @ 65 RPM PP 600 @ 60 SPM
		CIRCULATE	1745-1800 CIRCULATE FOR SAMPLES
7DEC82	6152' (145')	DRILLING	1800-0000 WOB 45 @ 60 SPM
		CIRCULATE	0000-0330 CIRCULATE TO CONDITION FOR LOGS
		TRIP (6152')	0330-0615 TRIP OUT FOR E LOGS
		LOGGING	0615-1115 RUN ELECTRIC LOGS
8DEC82	6155' (3')	WAIT ON ORDERS	1115-0300 WAITING ON ORDERS
			0300-0515 PICK UP TOOLS FOR DST #2
			0515-0835 TRIP INTO HOLE WITH TEST TOOLS
		DST #2	0835-1220 RUN DST #2
			1220-1800 TRIP OUT WITH TEST TOOL
			1800- WAITING ON CEMENTERS TO PLUG HOLE

DEVIATION SURVEYS

<u>DEPTH</u>	<u>DEVIATION</u> <u>(IN DEGREES)</u>	<u>METHOD</u>
4220'	1 3/4°	WIRELINE
4717'	3/4°	WIRELINE
5593'	2 1/2°	WIRELINE
5955'	3°	WIRELINE

BIT RECORD

<u>BIT NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH IN</u>	<u>DEPTH OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>	<u>CONDITION T / B / G</u>
1	12 1/4	REED	FP52	58	1038	980	17 3/4	- - -
2	12 1/4	REED	FP52	1038	1716	678	13 3/4	2 8 I
3	12 1/4	SMITH	F3	1716	2180	464	17	- - -
4	7 7/8	REED	HS51	2180	3652	1472	41 3/3	- - -
5	7 7/8	REED	HS51	3652	4319	667	29 3/4	- - -
6	7 7/8	REED	FP53	4319	5593	1274	88 3/4	4 6 I
7	7 7/8	REED	FP53	5593	5962	362	31 1/2	- - -
8	7 7/8	SMITH	F3	5962	5967	4	----	- - -
9	7 7/8	REED	FP53	5967	6152	85	----	- - -

DAILY MUD REPORTS

DATE	DEPTH	WT	VIS	WL	pH	PV/YP	GELS	SOLIDS	F.C.	Cl ⁻	Ca ⁺⁺	LCM
18NOV82	1038'	8.3	34	NC	9.0	9/8	3/6	2 1/4%	1/32	500	20	
19NOV82	1716'	8.8	44	NC	8.0	13/9	4/10	4%	1/32	500	20	
20NOV82	2130'	9.1	45	NC	8.0	17/11	4/8	5%	1/32	500	20	15%
21NOV82	2180'	8.8	44	NC	7.0	15/9	5/12	3%	1/32	500	20	16%
22NOV82	2180'	8.8	46	NC	7.0	14/12	8/14	3%	1/32	500	20	14%
23NOV82	2180'	8.8 ⁺	49	NC	7.0	18/12	4/14	3%	2/32	500	20	15%
24NOV82	2784'	8.4 ⁺	28	NC	8.0	NC	NC	TRACE	1/32	500	20	
25NOV82	3590'	8.6	27	NC	9.0	NC	NC	TRACE	2/32	500	TRACE	
26NOV82	3946'	8.6	26	NC	9.0	NC	NC	TRACE	2/32	300	TRACE	
27NOV82	4300'	8.6 ⁺	29	NC	9.0	NC	NC	TRACE	2/32	300	TRACE	
28NOV82	4664'	9.0	36	8.0	10.2	9/5	1/6	4%	1/32	250	TRACE	
29NOV82	4900'	9.0	35	7.8	10.2	9/5	1/5	4.2%	1/32	250	TRACE	
30NOV82	5153'	9.0 ⁺	38	7.8	10.0	10/6	1/6	4.5%	1/32	250	TRACE	
1DEC82	5481'	9.1	36	8.0	10.8	9/5	1/5	5%	1/32	250	TRACE	
2DEC82	5654'	9.1	35	8.6	11.5	8/4	1/4	5.5%	1/32	250	TRACE	
3DEC82	5925'	9.2 ⁺	40	5.2	11.5	13/4	2/6	6%	1/32	350	TRACE	
4DEC82	5955'	9.0 ⁺	38	5.6	11.3	8/4	1/4	5%	1/32	350	TRACE	
5DEC82	5967'	9.2	45	5.0	10.5	20/10	2/10	6%	1/32	350	TRACE	
6DEC82	6007'	8.5	46	NC	12.5	24/16	3/12	--	2+/32	300	TRACE	25%
LOST 200 BBLs DRILLING FLUID - ANHYDRITE @ 5980' - DRILLED AHEAD LOSING RETURNS												
7DEC82	6152'	8.5	46	NC	12.5	24/16	3/12	--	2+/32	300	TRACE	25%
8DEC82	6157'	9.2	50	12.0	12.0	17/8	3/12	6%	2/32	700	120	

DST REPORT # 1

OPERATOR Husky Oil Company DATE 12/4/82
WELL 13-28 12-38 Montezuma Canyon LOCATION Sec. 28, T34S R24E, San Juan Co.,
TESTING CO. Halliburton TYPE TEST Bottom hole - Standard UT
INTERVAL: from 5818' to 5962' FORMATION Upper Ismay, Hovenweep, Lower
BLOW DESCRIPTION: Initial Tool opened with weak surface blow of 1 1/2" Ismay
- 2.5 oz. @ 5 min., 2.5 ox. @ 10 min., 2.5 @ 15 min.

second Opened with extremely weak surface blow which did not
register on guage - blow died at 20 min.

third

	12 hr.	24 hr.	
	TIME	MEASURED PRESSURE	CORRECTED PRESSURE
Initial Hydrostatic		2765 psi 2830 psi	
Final Hydrostatic		2752 psi 2803 psi	
Initial Flow	15	53 psi 107 psi	
Final Initial Flow		40 psi 80 psi	
Initial Shut-in	30	80 psi 148 psi	
Second Initial Flow	60	53 psi 121 psi	
Second Final Flow		56 psi 134 psi	
Second Shut-in	120	199 psi 255 psi	
Third Initial Flow			
Third Final Flow			
Third Shut-in			
Pressure Below Bottom Packer Bled To			

BOTTOM HOLE TEMPERATURE 126° F RECORDER PRESSURE RANGE N/A PSI

R₁ PIT MUD 6.40 @ 49°F - 848 ppm Cl⁻

R_m or R_w SAMPLE Chamber 2.86 @ 50°F - 1660 ppm Cl^-

R_m or R_w RECOVERED FLUID Top 3.42 @ 57°F - 1212 ppm Cl⁻ Bottom 380 @ 57°F - 1121 ppm Cl⁻

RECOVERY RCVD 120' very slightly gas cut rat hole mud, gas analysis from
300 ml fluid sample -

SAMPLER Chamber 914g C₁=7125 ppm C₂=1330 C₃=500 IC₄=145 NC₄=185

Bottom Sample 101.2g $C_1=7030$ $C_2=1200$ $C_3=600$ $IC_4=160$ $NC_4=200$

Top Sample 72.4g C₁=4750 C₂=750 C₃=400 C₄-N/A

REMARKS Tight Formation - Test was technical success

DST REPORT # 2

OPERATOR Husky Oil Company DATE 12/8/82
 WELL 12-38 Montezuma Canyon LOCATION Sec. 28, T34S R24E, San Juan Co., UT
 TESTING CO. Halliburton/D. Gunn TYPE TEST Off Bottom Straddle
 INTERVAL: from 6053' to 6087' FORMATION Desert Creek
 BLOW DESCRIPTION: initial Open with weak 1" blow - fair 5" blow @ 5 min.,
1 1/2 oz. @ 10 min., 1 1/2 oz. @ 15 min. no gas to surface

second Tool opened with fair 5" blow, 4" @ 10 min., 4" @ 10 min.,
4" @ 10 min., 4" blow @ 15 min., weak 2" blow @ 10 min.,
no flammable gas to surface
 third _____

	6082'	6035'	6151'
TIME	MEASURED PRESSURE		CORRECTED PRESSURE
Initial Hydrostatic	2976	2961.5	3021.7
Final Hydrostatic	2922	2934.2	2994.6
Initial Flow	15	40.2	26.4
Final Initial Flow		40.2	26.4
Initial Shut-in	30	80.3	79.2
Second Initial Flow	60	53.5	26.4
Second Final Flow		53.5	26.4
Second Shut-in	120	133.7	118.3
Third Initial Flow			
Third Final Flow			
Third Shut-in			
Pressure Below Bottom Packer Bled To			

BOTTOM HOLE TEMPERATURE 130° F RECORDER PRESSURE RANGE _____ PSI
 R_m PIT MUD 1.89 @ 56°F - 2727 ppm Cl⁻
 R_m or R_w SAMPLE 2.84 @ 53°F - 1454 ppm Cl⁻
 R_m or R_w RECOVERED FLUID 1.61 @ 60°F - 2727 ppm Cl⁻
 RECOVERY 31' Rat Hole Mud

SAMPLER 39 psi in sampler - 400cc Rate Hole Mud

REMARKS Tight Formation

DST REPORT # 1

OPERATOR Husky Oil Company DATE 12/4/82
WELL 12-38 Montezuma Canyon LOCATION Sec. 28, T34S R24E, San Juan Co., UT
TESTING CO. Halliburton TYPE TEST Bottom hole - Standard
INTERVAL: from 5818' to 5962' FORMATION Upper Ismay, Hovenweep, Lower Ismay
BLOW DESCRIPTION: initial Tool opened with weak surface blow of 1 1/2"
- 2.5 oz. @ 5 min., 2.5 ox. @ 10 min., 2.5 @ 15 min.

second Opened with extremely weak surface blow which did not register on guage - blow died at 20 min.

third

	12 hr.	24 hr.	
	TIME	MEASURED PRESSURE	CORRECTED PRESSURE
Initial Hydrostatic		2765 psi 2830 psi	
Final Hydrostatic		2752 psi 2803 psi	
Initial Flow	15	53 psi 107 psi	
Final Initial Flow		40 psi 80 psi	
Initial Shut-in	30	80 psi 148 psi	
Second Initial Flow	60	53 psi 121 psi	
Second Final Flow		56 psi 134 psi	
Second Shut-in	120	199 psi 255 psi	
Third Initial Flow			
Third Final Flow			
Third Shut-in			
Pressure Below Bottom Packer Blid To			

BOTTOM HOLE TEMPERATURE 126° F RECORDER PRESSURE RANGE N/A PSI

R_PIT MUD 6.40 @ 49°F - 848 ppm Cl⁻

R_m or R_w SAMPLE Chamber 2.86 @ 50°F - 1660 ppm Cl⁻

R_m or R_w RECOVERED FLUID Top 3.42 @ 57°F - 1212 ppm Cl⁻ Bottom 380 @ 57°F - 1121 ppm Cl⁻

RECOVERY RCVD 120' very slightly gas cut rat hole mud, gas analysis from
300 ml fluid sample

SAMPLER	Chamber 91	1st g	C ₁ =7125 ppm	C ₂ =1330	C ₃ =500	IC ₄ =145	NC ₄ =185
	Bottom Sample 101	1st g	C ₁ =7030	C ₂ =1200	C ₃ =600	IC ₄ =160	NC ₄ =200
	Top Sample 72	1st g	C ₁ =4750	C ₂ =750	C ₃ =400	C ₄ -N/A	

REMARKS Tight Formation - Test was technical success

DST REPORT # 2

OPERATOR Husky Oil Company **DATE** 12/8/82
WELL 12-38 Montezuma Canyon **LOCATION** Sec. 28, T34S R24E, San Juan Co., UT
TESTING CO. Halliburton/D. Gunn **TYPE TEST** Off Bottom Straddle

INTERVAL: from 6053' to 6087' **FORMATION** Desert Creek

BLOW DESCRIPTION: initial Open with weak 1" blow - fair 5" blow @ 5 min.,
1 1/2 oz. @ 10 min., 1 1/2 oz. @ 15 min. no gas to surface

second Tool opened with fair 5" blow, 4" @ 10 min., 4" @ 10 min.,
4" @ 10 min., 4" blow @ 15 min., weak 2" blow @ 10 min.,
no flammable gas to surface

third

	6082'	6035'	6151'
TIME	MEASURED PRESSURE		CORRECTED PRESSURE
Initial Hydrostatic	2976	2961.5	3021.7
Final Hydrostatic	2922	2934.2	2994.6
Initial Flow	15	40.2	26.4
Final Initial Flow		40.2	26.4
Initial Shut-in	30	80.3	79.2
Second Initial Flow	60	53.5	26.4
Second Final Flow		53.5	26.4
Second Shut-in	120	133.7	118.3
Third Initial Flow			
Third Final Flow			
Third Shut-in			
Pressure Below Bottom Packer Bled To			

BOTTOM HOLE TEMPERATURE 130° F **RECORDER PRESSURE RANGE** _____ PSI

R_m PIT MUD 1.89 @ 56°F - 2727 ppm Cl⁻

R_m or R_w SAMPLE 2.84 @ 53°F - 1454 ppm Cl⁻

R_m or R_w RECOVERED FLUID 1.61 @ 60°F - 2727 ppm Cl⁻

RECOVERY 31' Rat Hole Mud

SAMPLER 39 psi in sampler - 400cc Rate Hole Mud

REMARKS Tight Formation

ATOR Husky Oil Company **DATE** 11/28/82
WELL Federal 13-28 Montezuma Cannon **FIELD** Wildcat **CLI PROJECT #** 154
LOCATION Sec 28 T34S R24E **COUNTY** San Juan **STATE** Utah

DESCRIPTION OF PROBABLE RESERVOIR ROCK:

Show Interval - From 4718 **To** 4728 ; **Visual** ☐ **Possible mic suc**
Lithology: 80% Ls white light grey tan micxn-dns hard to soft earthy 20% Siltst reddish brown to brown calcareous Trace Sh reddish brown-brown
Percentage Reservoir Rock in Sample 80 % **Percentage Reservoir Rock w/Flu.** <1 %
Fluorescence: Color Yellow **Intensity** dull , **Distribution** spotty
Solvent Cut: Normal Color clear **Flu. Color** white-yel
Intensity bright **Development** very slow

GAS INFORMATION:

DRILLING FLUID GAS: Gas is - **Liberated** **Produced** X **Both**

	DEPTH	MIN/FT	TOTAL	C1	C2	C3	C4	C5	OIL INDIC.
BACK-GROUND	18	3.7	3	43	10				
INTERVAL	4720	3.2	6	80	54	57	106		
"	22	3	5	94	54	57	106		
"	24	3.2	9	120	75	59	170		
"	26	3.2	18	97	62	88	290		
"	28	1.7	5	110	36	27	81		
"	4730	4	2	94	15	10	32		
"									
"									
"									
NET									

DRILL CUTTINGS GAS:

	DEPTH	TOTAL	C1	C2	C3	C4	C5	OIL INDIC.
MAXIMUM	4730	6	—	—	—	—		
BACKGROUND	4720	1	—	—	—	—		
NET		5	—	—	—	—		

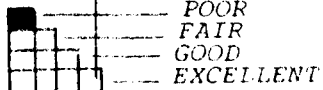
DRILLING INFORMATION:

Average Drilling Rate - During Break **Before Break** **Controlled Drlg**
Bit - Type Reed FP 63 , **Diameter** 7 7/8 , **Condition -** **New,** ☒ **Worn,** **dull**
Wt. on Bit - Increased to , **Decreased to** **No change at** 40,000
Mud - Wt. 9 , **Vis.** 36 , **F** 8 , **Ck** 1/32 , **% Oil** 0 , **% Sand** 1/4
Chlorides During Show not tested

Other -

FIELD EVALUATION:

REMARKS: Honaker Trail Fm. Poor show Poor visible ϕ No sustained gas increase.



DRILLER Husky Oil Company DATE 12-3-82

WELL 13-28 Federal Montezuma Canyon FIELD Wildcat CLI PROJECT # 154

LOCATION Sec 28 T34S R24E COUNTY San Juan STATE Utah

DESCRIPTION OF PROBABLE RESERVOIR ROCK:

Show Interval - From 5930 To 5950; Visual \emptyset nil

Lithology: 100% Shale - black dark gray firm-hard blkly plty very carbonaceous calcareous silty

Percentage Reservoir Rock in Sample 100 %, Percentage Reservoir Rock w/Flu none %

Fluorescence: Color none Intensity , Distribution

Solvent Cut: Normal Color none Flu. Color

Intensity Development

GAS INFORMATION:

DRILLING FLUID GAS: Gas is - Liberated Produced X Both

	DEPTH	MIN/FT	TOTAL	C1	C2	C3	C4	C5	OIL INDIC.
BACK-GROUND	5930	4.5	104	7980	1800	1200	1030		
INTERVAL	32	4.5	96	6840	1500	1200	1030		
"	34	4	96	7030	1500	1200	1030		
"	36	4	56	5320	1200	1000	660		
"	38	4	88	6820	1500	1000	660		
"	5940	3.8	94	6840	1400	1000	1030		
"	42	3.3	124	9310	2100	1400	1030		
"	44	4	78	6500	1400	800	660		
"	46	3.2	136	9100	2100	1400	1030		
"	48	3.5	176	11400	2700	1600	1030		
NET	5950	2	180	11600	2700	1600	1030		

DRILL CUTTINGS GAS:

	DEPTH	TOTAL	C1	C2	C3	C4	C5	OIL INDIC.
MAXIMUM	See Show	Report 2b.						
BACKGROUND								
NET								

DRILLING INFORMATION:

Average Drilling Rate - During Break Before Break Controlled Drllg

Bit - Type Reed FP 53, Diameter , Condition - New, X Worn, dull

Wt. on Bit - Increased to , Decreased to No change at 45000

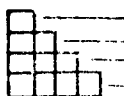
Mud - Wt. 9.2+, Vis. 40, F 5.2, Ck 1/32, % Oil 0, % Sand

Chlorides During Show 350

Other -

FIELD EVALUATION:

REMARKS: Note! This is not a show. We are flagging a good source rock.



 POOR
 FAIR
 GOOD
 EXCELLENT

WELL 170R Husky Oil Company DATE 12-3-82
 WELL 13-28 Federal Montezuma Canyon FIELD Wildcat CLI PROJECT # CR 154
 LOCATION SWSW Sec 28 T34S R22E COUNTY San Juan STATE Utah

DESCRIPTION OF PROBABLE RESERVOIR ROCK:

Show Interval - From 5930 To 5950; Visual \emptyset nil

Lithology: see Show Report 2a

Percentage Reservoir Rock in Sample 100 %, Percentage Reservoir Rock w/Flu. none %

Fluorescence: Color none Intensity , Distribution

Solvent Cut: Normal Color none Flu. Color

Intensity Development

GAS INFORMATION:

 : Gas is - Liberated Produced Both

	Cuttings Gas		PPM					
	DEPTH	TOTAL	C1	C2	C3	C4	C5	
BACK- GROUND	5925-30	12 units	60	38	60	117	present	
INTERVAL								
"	5930-35	41	140	110	270	380	present	
"	5935-42	53	130	130	400	720	present	
"	5942-50	54	95	180	600	4600	present	
"	5950-55	31	69	92	240	490	present	
NET								

DRILL CUTTINGS GAS: See Above

	DEPTH	TOTAL	C1	C2	C3	C4	C5	OIL INDIC.
MAXIMUM								
BACKGROUND								
NET								

DRILLING INFORMATION:

Average Drilling Rate - During Break Before Break Controlled Drlg

Bit - Type , Diameter , Condition - New, Worn, dull

Wt. on Bit - Increased to , Decreased to No change at

Mud - Wt. , Vis. , F , CA , % Oil , % Sand

Chlorides During Show

Other -

FIELD EVALUATION:

REMARKS:

☐ POOR
☐ FAIR
☐ GOOD
☐ EXCELLENT

BY ATOR Husky Oil Co. DATE 12-6-82
 WELL 13-28 Federal Montezuma Canyon FIELD Wildcat CLI PROJECT # CR 154
 LOCATION SWSW Sec 28 T34S R24E COUNTY San Juan STATE Utah

DESCRIPTION OF PROBABLE RESERVOIR ROCK:

Show Interval - From 6073 To 6074; Visual ϕ nil

Lithology: Sltst ltgy frm blk y v sndy calc

Percentage Reservoir Rock in Sample 30 %, Percentage Reservoir Rock w/Flu. 0 %

Fluorescence: Color none Intensity , Distribution

Solvent Cut: Normal Color clear Flu. Color none

Intensity Development

GAS INFORMATION:

DRILLING FLUID GAS: Gas is - X Liberated Produced Both

	DEPTH	MIN/FT	Units	PPM					
			TOTAL	C ₁	C ₂	C ₃	IC ₄	NC ₄	
BACK- GROUND INTERVAL	6072	52	64	2000	260	200	trace	trace	
	6074	3.1	880	54700	6200	3200	2080	2240	
	6076	50	100	20200	2100	1600	trace	trace	
"									
"									
"									
"									
"									
"									
"									
NET									

DRILL CUTTINGS GAS:

	DEPTH	Units	PPM					
		TOTAL	C ₁	C ₂	C ₃	IC ₄	NC ₄	
MAXIMUM	6070-80	10	55	54	140	65	84	
BACKGROUND	6060-70	5	64	47	100	52	70	
NET		5	-9	7	40	13	14	

DRILLING INFORMATION:

Average Drilling Rate - During Break 31 Before Break 52 Controlled Drllg no

Bit - Type Reed FP 53 RR, Diameter 7 7/8, Condition - New, X Worn, dull

Wt. on Bit - Increased to , Decreased to No change at 45

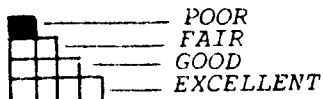
Mud - Wt. 85, Vis. 46, F 5.0, Ck 2/32, % Oil , % Sand

Chlorides During Show not measured

Other - LCM 25% of vol.

FIELD EVALUATION:

REMARKS: a minor gas show



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

U-20902

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal Montezuma Canyon

9. WELL NO.

#13-28

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 28, T34S, R24E

12. COUNTY OR
PARISH

San Juan

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Plug & Abandon

2. NAME OF OPERATOR

HUSKY OIL COMPANY

3. ADDRESS OF OPERATOR

6060 S. Willow Drive, Englewood, Colorado 80110 1983

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 660' FSL & 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$

At top prod. interval reported below

At total depth

Same

14. PERMIT NO.

43-037-30827

DATE ISSUED

10/21/82

15. DATE SPUDDED

11/17/82

16. DATE T.D. REACHED

12/7/82

17. DATE COMPL. (Ready to prod.)

N/A

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

6802'GR; 6816'KB

19. ELEV. CASINGHEAD

--

20. TOTAL DEPTH, MD & TVD

6157' MD/TVD

21. PLUG, BACK T.D., MD & TVD

N/A

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

A11

CABLE TOOLS

None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Plugged & Abandoned

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

CNL-FDC

DIL-SFL

BHC

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	2180	12-1/4"	1120 SX	
**Plugs given below.		6000'	7-7/8"		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

**Plug #1: 5800-6000 w/75 SX
#2: 2800-3000 w/93 SX
#3: 2100-2300 w/88 SX
#4: Surface w/20 SX & DH marker

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.*

PRODUCTION

DATE FIRST PRODUCTION

N/A

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

N/A

WELL STATUS (Producing or
shut-in)

P&A'd

DATE OF TEST

HOURS TESTED

CHOKE SIZE

PROD'N. FOR
TEST PERIOD

OIL—BBL.

GAS—MCF.

WATER—BBL.

GAS-OIL RATIO

FLOW. TUBING PRESS.

CASING PRESSURE

CALCULATED
24-HOUR RATE

OIL—BBL.

GAS—MCF.

WATER—BBL.

OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

DST#1 & DST#2

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Vera Chandler 303/850-1462

SIGNED

TITLE Associate Environmental Analyst DATE February 8, 1983

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Upper Ismay	5816	5962	DST #1
Desert Creek	6053	6087	DST #2

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Shinarump	2691	
Moenkopi	2758	
Cutler	2828	
Hohaker Trail	4628	
Upper Ismay	5782	
Lower Ismay	5952	
Desert Creek	6036	
Akah	6124	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number #13-28 FEDERAL MONTEZUMA CANYON
Operator HUSKY OIL COMPANY Address 6060 S. Willow Drive
Englewood, Colorado 80111
Contractor Coleman Drilling Company Address Drawer 3337
Farmington, New Mexico 87499
Location SW ¼ SW ¼ Sec. 28 T. 34S R. 24E County San Juan

Water Sands

<u>Depth</u>	<u>Volume</u>	<u>Quality</u>
From To	Flow Rate or Head	Fresh or Salty
1.	The geologist reports that no water flow was encountered during drilling.	
2.	The well was drilled to 6157' (straight hole).	
3.		
4.		
5.		

(Continue of reverse side if necessary)

<u>Formation Tops</u>	Shinarump	2685	Upper Ismay	5782
	Moenkopi	2758	Lower Ismay	5952
	Cutler	3358	Desert Creek	6036
	Honaker Trail	4628	Akah	6124

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL				5. MINERAL LEASE NO: UTU 84682	8. SURFACE: Federal
1A. TYPE OF WORK: DRILL <input type="checkbox"/> REENTER <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: CrownQuest Operating				9. WELL NAME and NUMBER: Husky Montezuma Federal 13-28	
3. ADDRESS OF OPERATOR: 303 Veterans Airpark Ln Midland TX 79705			PHONE NUMBER: (432) 818-0300		
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 549' FSL x 687' FWL <i>649921X 37.787 369</i> AT PROPOSED PRODUCING ZONE: same <i>4183384Y 109.997 432</i>				10. FIELD AND POOL, OR WILDCAT: Pennsylvanian / Wildcat	
				11. QUAD, SECTION, TOWNSHIP, RANGE, MERIDIAN: <i>SWSW</i> 28 34S 24E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 10 miles North from Blanding, Utah				12. COUNTY: San Juan	
				13. STATE: UTAH	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 660'		16. NUMBER OF ACRES IN LEASE: 600		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 160	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) none		19. PROPOSED DEPTH: 6,157		20. BOND DESCRIPTION: RLB0007554	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 6802' GL		22. APPROXIMATE DATE WORK WILL START: 4/1/2007		23. ESTIMATED DURATION: 60 days	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
			see attached details

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- | | |
|---|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER

<input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN

<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |
|---|--|

NAME (PLEASE PRINT) **Robert R. Griffiee** TITLE **Operations Manager, agent for CrownQuest**
 SIGNATURE *Robert R. Griffiee* DATE **2/28/2007**

(This space for State use only)

API NUMBER ASSIGNED: **43-037-30827**

**Approved by the
Utah Division of
Oil, Gas and Mining**

APPROVAL:

Date: **03-12-07**

(See Instructions on Reverse Side)

By: *[Signature]*

(11/2001)

**Federal Approval of this
Action is Necessary**

RECEIVED

MAR 07 2007

DIV. OF OIL, GAS & MINING

UTAH WELL LOCATION PLAT

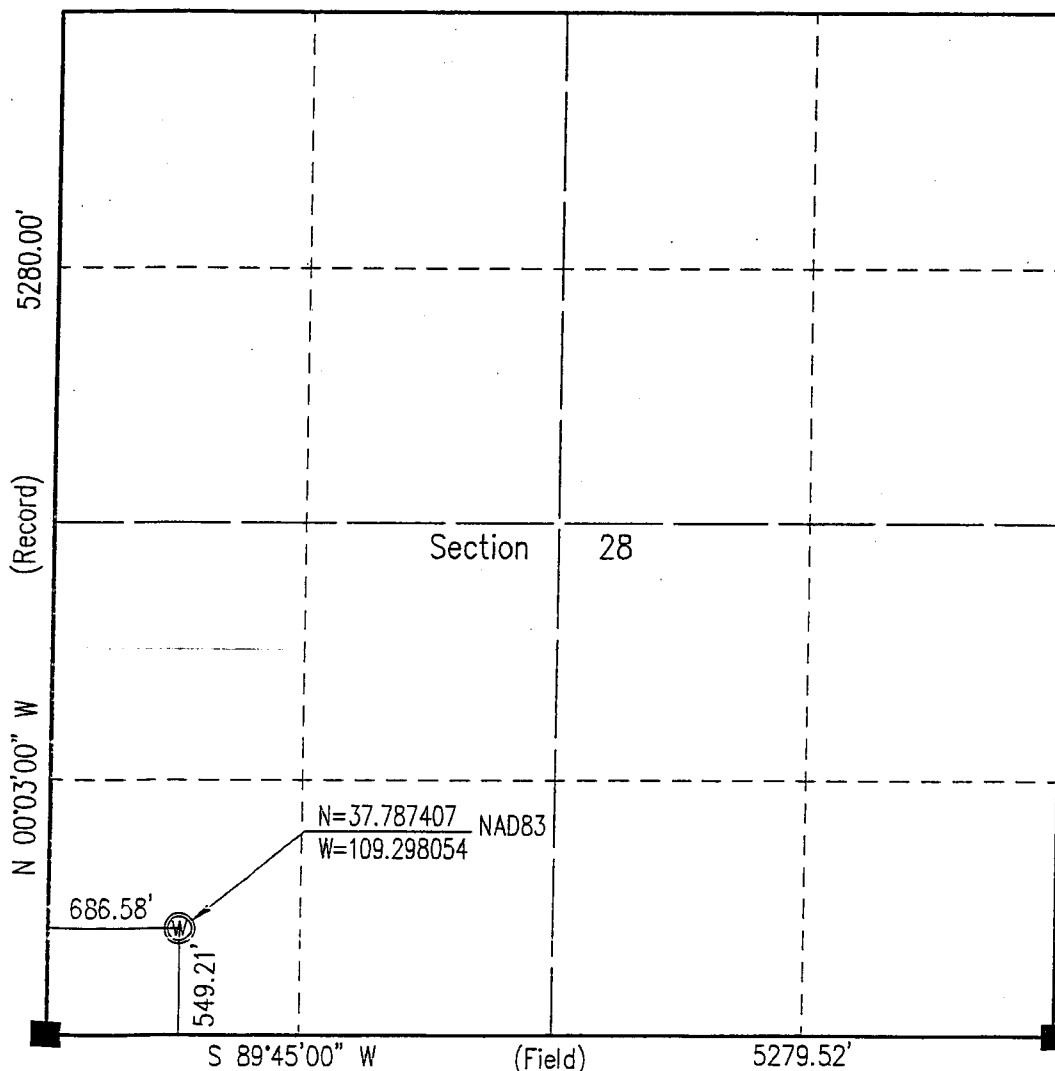
OPERATOR Crown Quest
 LEASE Federal Montezuma WELL NO. 13-28
 SECTION 28 TOWNSHIP 34 South RANGE 24 East 6th, P.M.
 COUNTY San Juan UTAH
 FOOTAGE LOCATION OF WELL: 549.21 FEET FROM THE South LINE and
686.58 FEET FROM THE West LINE and
 GROUND LEVEL ELEVATION: 6863.08
 SURFACE USE WITHIN 200' RADIUS: No Improvements Within 200'
 BASIS OF BEARING: GPS Data
 BASIS OF ELEVATION: GPS Data - NAD 83 - PODP #4



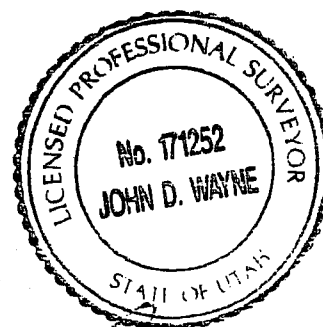
500' 500'
 1" = 1000'

Some information on this plat is based on information taken from previous surveys, record information, or collateral evidence and may not reflect that which may be disclosed by a complete boundary survey. This plat is not to be relied on for the establishment of surface boundaries, fences, buildings, or other future improvements.

- GLO BC (1912)
- WELL Location
- STONE Marked
- ALUMINUM CAP



I hereby certify that the proposed well location shown on this plat was prepared from field notes of an actual survey by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief, and that there are no visible improvements within 200 feet of this proposed wellhead, unless noted otherwise.



John D. Wayne
 Professional L.S. #171252
 State of Utah

FEBRUARY 12, 2007

Date Surveyed:

FEBRUARY 22, 2007

Date Platted:

SCALE: 1" = 1000'

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/07/2007 (Re-entry)

API NO. ASSIGNED: 43-037-30827

WELL NAME: HUSKY MONTEZUMA FED 13-28

OPERATOR: CROWNQUEST OPERATING, (N2685)

CONTACT: ROBERT GRIFFEE

PHONE NUMBER: 432-818-0300

PROPOSED LOCATION:

SWSW 28 340S 240E

SURFACE: 0549 FSL 0687 FWL

BOTTOM: 0549 FSL 0687 FWL

COUNTY: SAN JUAN

LATITUDE: 37.78737 LONGITUDE: -109.2974

UTM SURF EASTINGS: 649921 NORTHINGS: 4183384

FIELD NAME: WILDCAT (1)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 84682

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: PRDX

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. RLB0007554)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. MUNICIPAL)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)
☒ Intent to Commingle (Y/N)

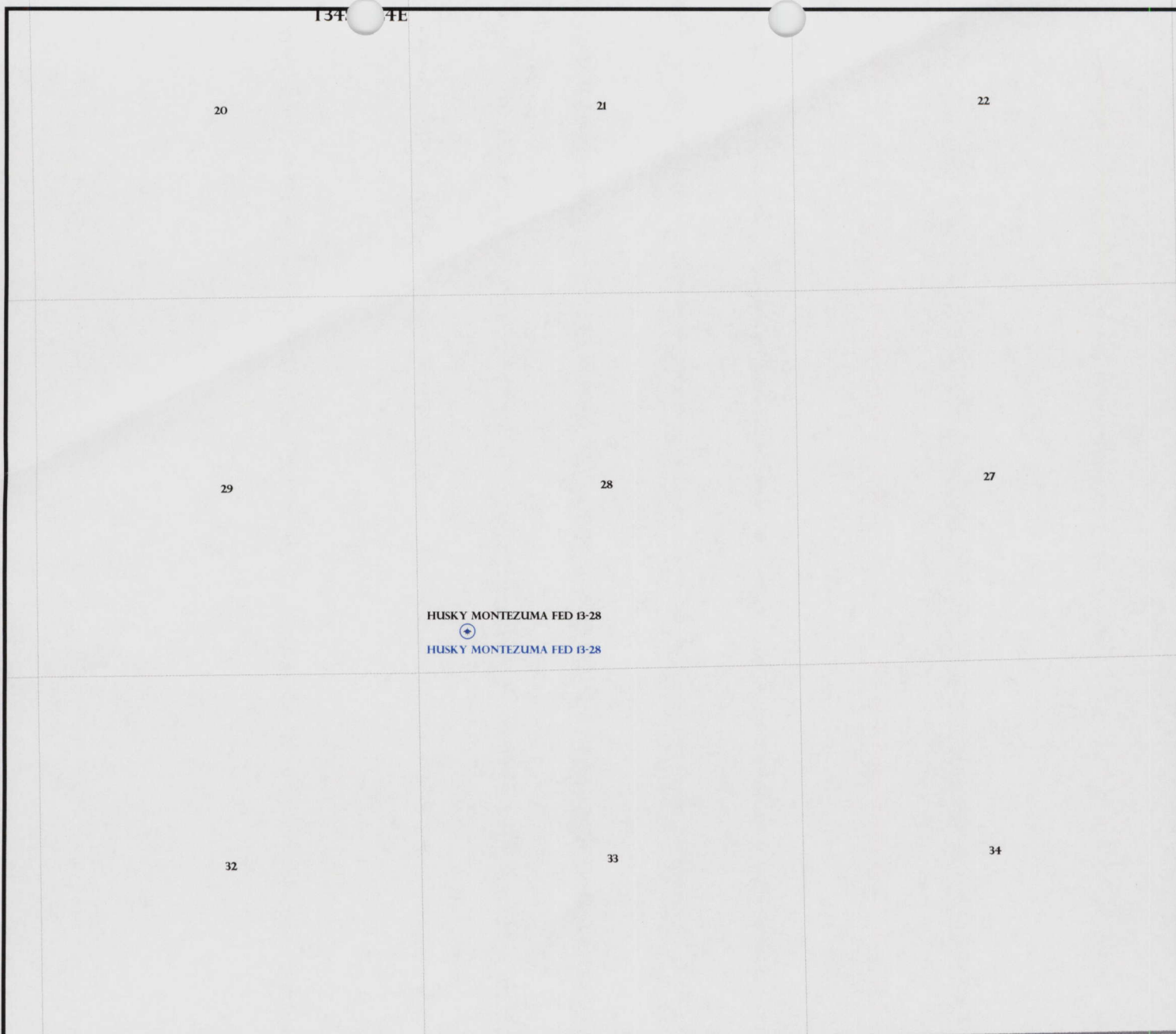
LOCATION AND SITING:

___ R649-2-3.
Unit: ___
☒ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
___ R649-3-3. Exception
___ Drilling Unit
Board Cause No: ___
Eff Date: ___
Siting: ___
___ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____

1. Federal Approval
2. Spacing Waiver



OPERATOR: CROWNQUEST OPER (N2685)

SEC: 28 T.34S R. 24E

FIELD: WILDCAT (001)

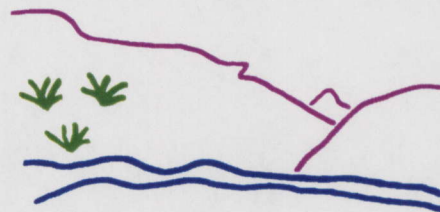
COUNTY: SAN JUAN

SPACING: R649-3-2 / GENERAL SITING

Field Status
 [Black Box] ABANDONED
 [Pink Box] ACTIVE
 [Purple Box] COMBINED
 [Red Box] INACTIVE
 [Blue Box] PROPOSED
 [Orange Box] STORAGE
 [White Box] TERMINATED

Unit Status
 [White Box] EXPLORATORY
 [Light Blue Box] GAS STORAGE
 [Light Green Box] NF PP OIL
 [Light Yellow Box] NF SECONDARY
 [Light Blue Box] PENDING
 [Green Box] PI OIL
 [Red Box] PP GAS
 [Red Box] PP GEOTHERML
 [Green Box] PP OIL
 [Blue Box] SECONDARY
 [White Box] TERMINATED

Wells Status
 [Red Star] GAS INJECTION
 [Red Star] GAS STORAGE
 [X] LOCATION ABANDONED
 [Blue Circle] NEW LOCATION
 [Diamond] PLUGGED & ABANDONED
 [Red Star] PRODUCING GAS
 [Green Star] PRODUCING OIL
 [Red Star] SHUT-IN GAS
 [Green Star] SHUT-IN OIL
 [X] TEMP. ABANDONED
 [Red Circle] TEST WELL
 [Blue Triangle] WATER INJECTION
 [Blue Circle] WATER SUPPLY
 [Blue Circle] WATER DISPOSAL
 [Red Circle] DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON
 DATE: 12-MARCH-2007

Re-Entry Plan

Well Name: Husky Montezuma Federal 13-28

Surface Location: 549' FSL x 687' FWL, Section 28, T34S, R24E
San Juan County, Utah

Target Formation: Pennsylvanian

Elevation: 6802' GL

Geology:

Formation	Top	Probable Content
Dakota	Surface	
Entrada Ss	1030'	potential fresh water
Navajo Ss	1240'	potential fresh water
Chinle Fm	2208'	vari-color shale
De Chelly Ss (top of Permian)	3015'	brackish water
Honaker Trail (top of Penn)	4628'	potential gas, brine
Upper Ismay	5782'	gas/oil/brine
Desert Creek	6034'	gas/oil/brine
Paradox Salt	6157'	
TD	6157'	

Logging Program: Open hole logs have already been obtained and submitted. Cased hole neutron log to be run after setting 5 1/2" casing.

Clean-out Fluid Program:

Interval	Fluid Type	Weight	Viscosity	Fluid Loss
0' - 2180'	fresh water	8.4 ppg	n/a	no control
2180' - 6157'	production brine/polymer	9.2 ppg	30 - 80 sec	10

Casing Program:

Interval	Hole Diameter	Csg Size	Wt.	Grade	Thread
Conductor - Installed 1984					
0' - 60'	26"	20"			
Surface - Installed 1/16/84					
0' - 2180'	12 1/4"	8 5/8"	24 ppf	K-55	STC
Production					
0' - 6157'	7 7/8"	5 1/2"	17 ppf	P110	LTC

Tubing Program: 0 - 6100', 2 3/8", 4.7 ppf, J55, EUE

BOPE and Wellhead Specifications and Testing:

For clean-out operations from surface to TD: 9 5/8", 3000 psi weld on casing head. 11", 3000 psi double gate BOP. 3000 psi choke manifold. (see figures 1 and 2). Pressure test BOPE to 3000 psi and 9 5/8" Surface casing head to 1500 psi prior to drilling out of casing shoe.

For completion operations: 5 1/2" x 2 3/8", 5000 psi tree assembly. 7 1/16", 5000 psi double gate BOP system. 5000 psi choke manifold (see figures 3 and 4). Pressure test 5 1/2" casing to 5000 psi prior to frac'ing. The 5000 psi pressure rating is for possible frac treatment pressures and is far in excess of 3000 psi BOP equipment required to control anticipated formation pressure.

General Operation:

- Actuate pipe rams once each day during clean-out operations. Actuate blind rams once each trip.
- An upper Kelly cock valve, with handle, will be available on the rig floor to fit each drilling string.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in the daily drilling report.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing Program:

20" Conductor Casing String: already installed and cemented.

8 5/8" Surface Casing String: already installed and cemented.

5 1/2" Production Casing String: Run casing with float shoe on bottom, float collar one joint from bottom. Install one centralizer in the middle of the first joint, one on every other collar from TD to the top of the Honaker Trail formation, and one inside the surface casing shoe. Cement with 470 sks 65/35 poz + 6% gel + 0.25 #/sk D130 + 18% D44 + .3% D167 + .15% D65A + 5 #/sk D24 (12.4 ppg, 1.93 cf/sk) followed by 312 sks 25/75 poz + 0.3% D65 + 0.15% D65 + 10% D44BWOW + 0.35% retarder (13.8 ppg, 1.47 cf/sk). Top of cement calculated to be at 1180'.

Special Clean-out Operations:

None anticipated

Additional Information:

- This well is designed to be completed in the Pennsylvanian formations, based on cased-hole logs.
- A fresh water pressure gradient (.433 psi/ft) is anticipated. Adequate weighting material will be kept on location to maintain mud weight.
- LCM will be added to the mud system as required to maintain circulation.
- Estimated formation pressures:
 - Ismay 2577 psi
 - Desert Creek 2612 psi

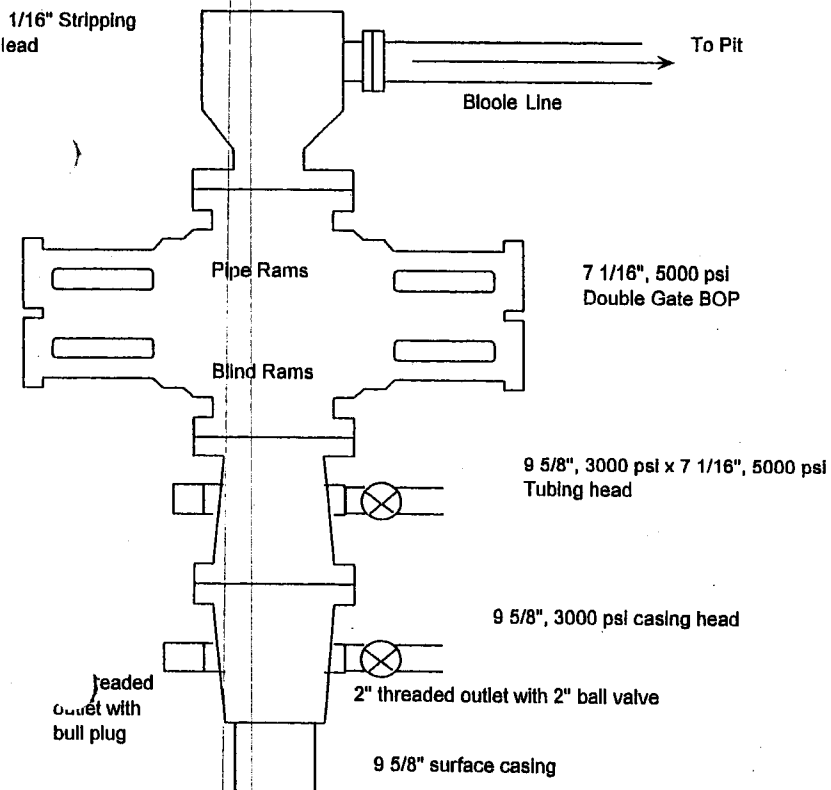
Completion Information:

The completion procedure will be prepared after cased hole logs are analyzed. The well will probably be completed by frac treatment.

Prepared by: Robert R. Griffie
Operations Manager
Agent for CrownQuest
Date: 2/16/07

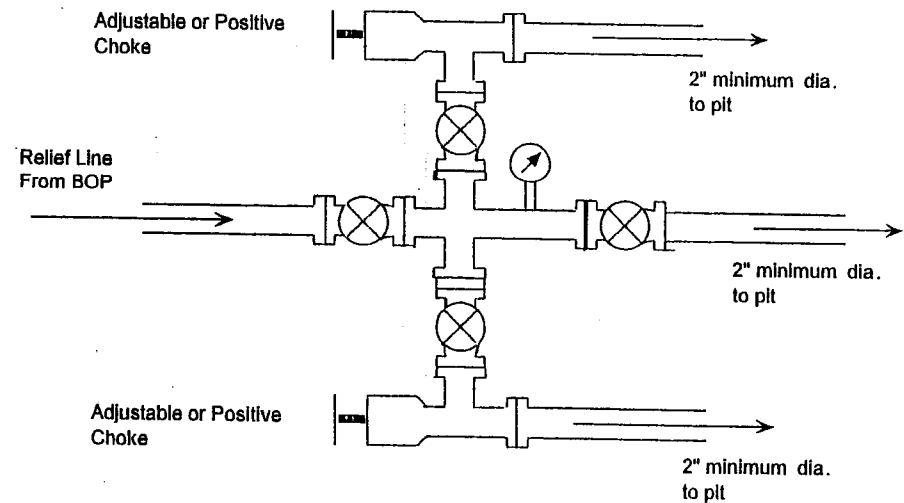
Figure 3

7 1/16", 5000 psi Completion Rig BOP System



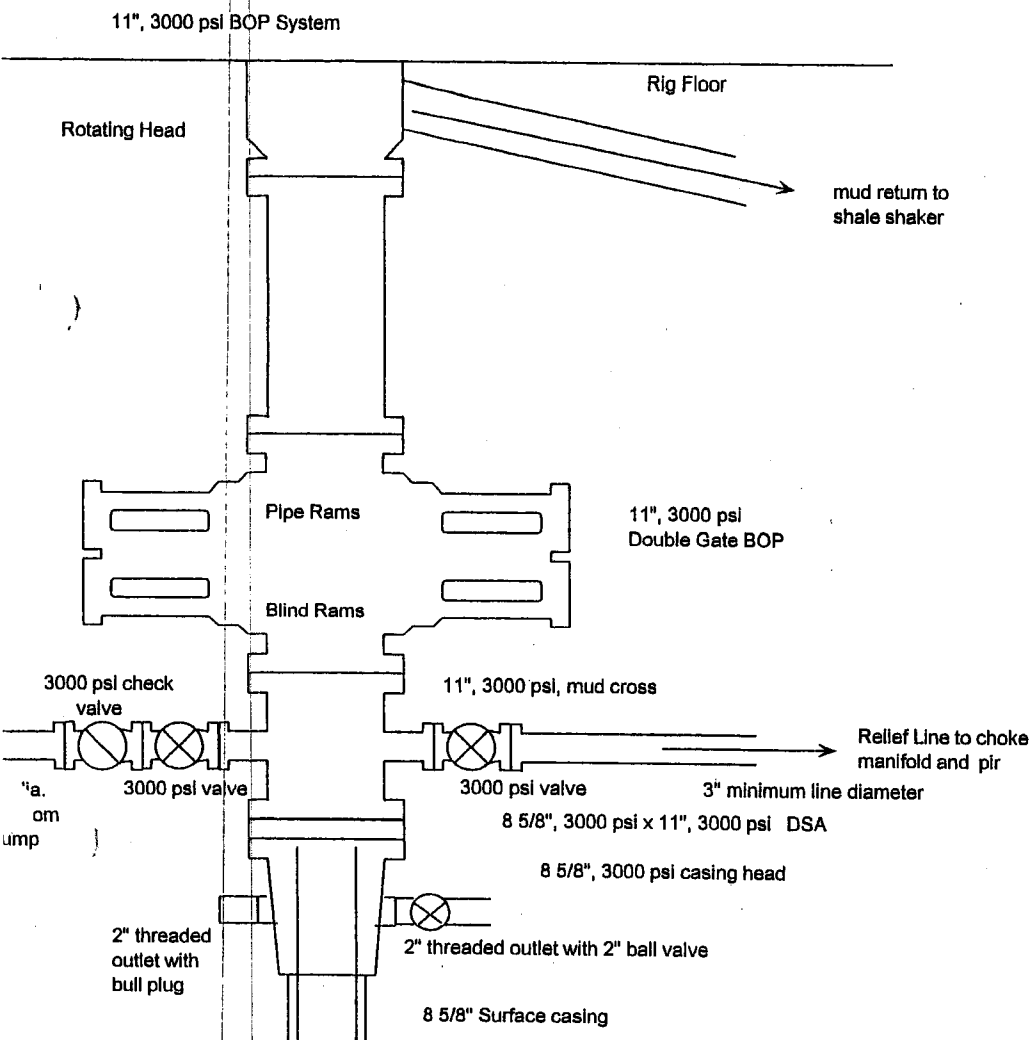
BOP Installation for Completion operations. 7 1/16", 5000 psi double gate BOP equipped with blind and pipe rams. All equipment rated at 5000 psi or greater working pressure.

Figure 4



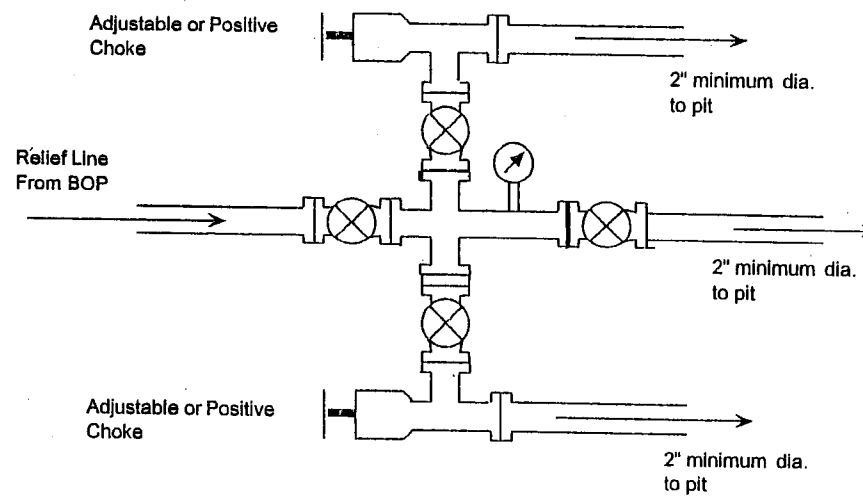
Choke manifold for BOP system shown in Figure 3. All equipment to be rated at 5000 psi or greater.

Figure 1



BOP Installation from Surface Casing depth (2180') to TD (6157'). 11", 3000 psi double gate BOP equipped with blind and pipe rams, 11" rotating head. All equipment rated at 3000 psi or greater working pressure.

Figure 2



Choke manifold for BOP system shown in Figure 3. All equipment to be rated at 3000 psi or greater.

Husky Montezuma Federal 13-28 Re-Entry Procedure

Prepared by: Robert R. Griffie
Operations Manager
2/16/07

Notes:

- 3000 psi BOP equipment is selected to drill out the cement plugs. Calculated maximum formation pressure is 2612 psi at 6278' ft, or a pressure gradient of 0.433 psi/ft.
- 5000 psi BOP equipment is selected for completion work based on possible flow back pressures after acidizing or hydraulic fracture treatments and not from expected formation pressure.
- Surface casing is set at 2180'. 8 5/8", 24 ppf, K55. YP = 2950 psi. Cemented to surface.

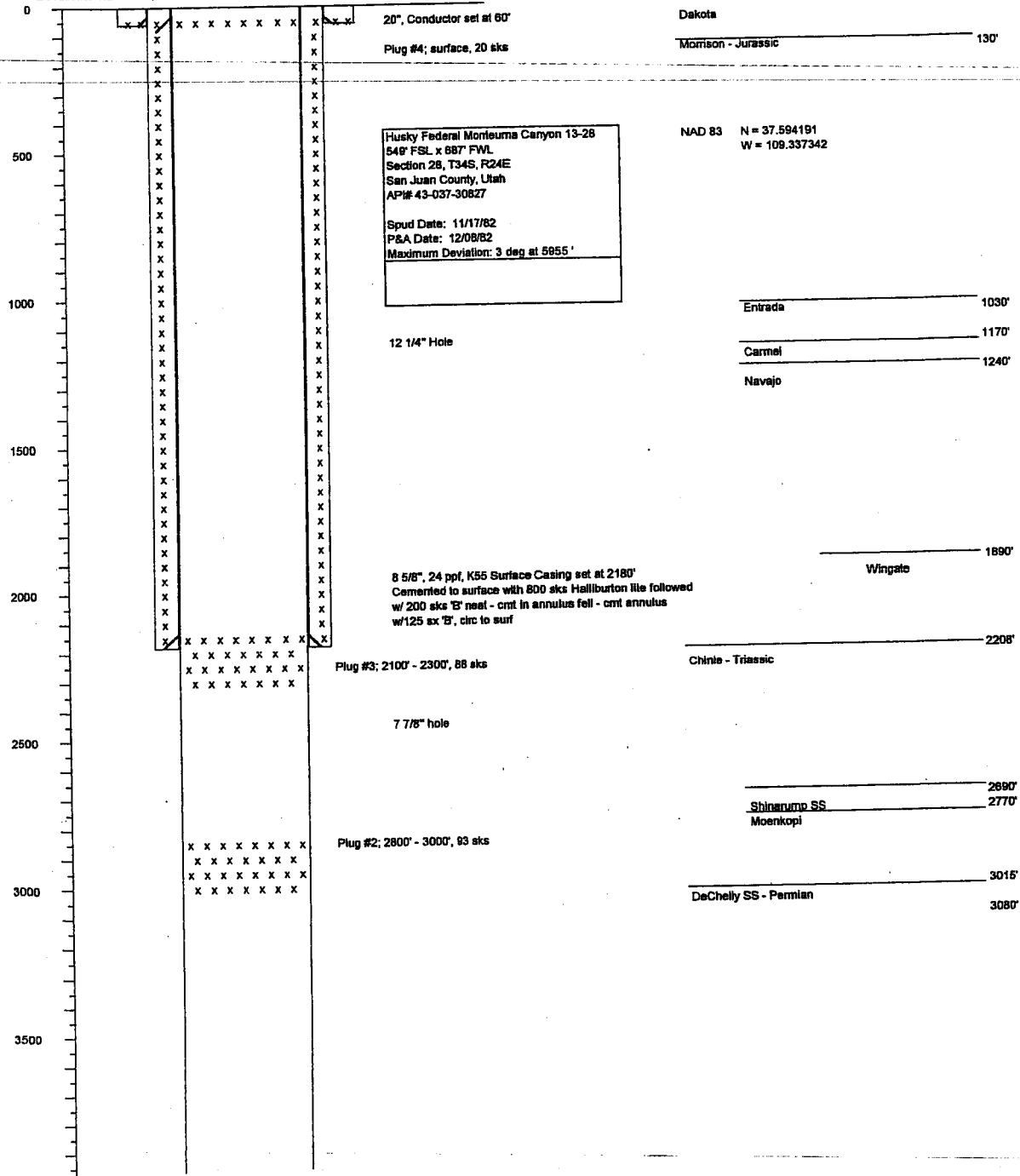
Procedure

1. Construct location using original disturbed area. Construct reserve pit and line. Dig out around dry hole marker. Remove marker. Construct and install cellar. Set rig anchors and test.
2. MIRU well service rig and equipment.
3. Weld on 8 5/8", 3000 psi casing head. Install 11", 3000 psi double gate BOPE and choke manifold.
4. PU 7 7/8" mill tooth bit, eight 4 3/4" dc's, and 2 7/8" work string. Drill out cement plugs from surface to 100'. Use production brine for fluid. Clean out to cement plug at 2100'.
5. TOH.
6. Install test plug in casing head and pressure test casing head and BOPE to 3000 psi.
7. Pressure test 8 5/8" casing to 2500 psi.
8. TIH with bit and dc's and drill cement plugs from and 2100' – 2300'. Clean out open hole to 2800' using fresh water, polymer, and gel fluid system. Drill out cement plugs from 2800' – 3000' and 5800' – 6000'. Clean out to TD of 6157'.
9. Circulate well clean and stabilize well bore.
10. TOH.
11. RU and run 5 1/2", 17 ppf, P-110, LTC casing. Install float shoe on bottom and float collar one joint from bottom. Centralize with 1 centralizer per casing collar from TD to 4600', and one centralizer at 2130' (inside surface casing). Land casing in full tension.
12. Cement as follows: 470 sks 65/35 poz + 6% gel + 0.25 #/sk D130 + 18% D44 + .3% D167 + .15% D65A + 5 #/sk D24 (12.4 ppg, 1.93 cf/sk) followed by 312 sks 25/75 poz + 0.3% D65 + 0.15% D65 + 10% D44BWOW + 0.35% retarder (13.8

ppg, 1.47 cf/sk). Slurry volumes designed to bring cement 1000' up into 9 5/8" casing. Calculations based on 70% excess over open hole volume.

13. WOC 72 hours or as indicated by pilot testing, for cement to achieve full compressive strength.
14. While WOC, ND 11", 3000 psi BOP. NU 9 5/8", 3000 psi x 7 1/16", 5000 psi casing head. NU 7 1/16", 5000 psi BOP.
15. Pressure test casing and BOP to 5000 psi.
16. PU bit. TIH and clean out to PBTD of 6100' +/- . Circulate casing clear. TOH.
17. TIH to PBTD with casing scraper.
18. Load casing with 4% KCL water. Insure that all additional load water is 4% KCL.
19. TOH.
20. Run cased-hole logs and evaluate.
21. Select completion interval based on cased-hole logs. Completion may be accomplished by acidizing and/or frac (to be determined). Potential completion possibilities are of Pennsylvanian age from 6157' to 4628'.
22. After completing, evaluate zones.

Elevations: KB - 6802, GL - 6816'



Husky Montezuma Federal 13-28
Thirteen Point Surface Use Plan

1) Existing Roads

- a) The proposed route to the location is shown on the attached Topographical Map.
- b) The well pad is located approximately 5 miles South, Southeast of Monticello, Utah.
- c) If necessary, an encroachment permit will be obtained from San Juan County, Utah for use of the existing county road (CR #146). County Road #146 begins at High Way #191 approximately 4 miles South of Monticello, Utah.

2) Access Road

- a) Approximately .5 mile of unnumbered flat bladed road joins CR #146 and provides access to the well site.
- b) No cattle guards will be required.
- c) There are no existing roads outside the lease or unit boundary for which a BLM right-of-way is required .

b) Location of existing wells

See attached Topographical Map for the location of existing wells in the area of this proposed well site.

c) Location of Production Facilities

- a. In the event the well is brought to production, necessary production equipment will be determined and a diagram will be submitted showing the layout of such equipment on the location site.
- b. Off-site facilities: No off-site facilities are required.
- c. Pipelines: Pipeline plat is attached.

All permanent (in place for six months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, non-reflective color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows: Juniper Green.

All site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed.

If a gas meter run is constructed it will be located on the lease within 500 feet of the well head. The gas flow line will be buried from the wellhead to the meter and will be buried downstream of the meter until it leaves the pad. Meter runs will be housed and /or fenced. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

If a tank battery is constructed on this lease, it will be surrounded by a berm of sufficient capacity to contain 1 ½ times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All oil production and measurement shall conform to the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 4.

Production facilities on location may include a lined or unlined production water pit as specified. If water is produced from the well an OOGO #7 application must be submitted.

d) Location and Type of Water Supply

Fresh water needed for drilling and completion purposes will be obtained from the City of Monticello, Utah (Section 30, T33S, R24E.). When appropriate and available, Brine Water will be use to reduce fresh water consumption.

e) Source of Construction Material

It is not anticipated that additional construction materials will be required for construction of the well pad, pit, and access road for drilling operations. Gravel and rock for upgrading the access roads to Class III Standards will be obtained from a private source, if needed. If additional materials are required, they will be obtained from a private source. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

f) Methods of Handling Waste Water Disposal

All garbage and trash materials will be contained in a trash cage and removed from the site for proper disposal as necessary, but no later than at the conclusion of drilling operations. Portable toilets will be provided and serviced appropriately.

The first 6 inches of top soil will be removed, stockpiled along the edge of the well pad and reserved for reclamation. The drill pad is approximately 200' x 300'. The reserve pit will be reopened on the drill pad near the well head and will be approximately 150' x 75' x 10' with 3:1 slopes. The pit will be lined with 12 mil polyliner.. Three sides of the reserve pit will be fenced prior to drilling operations and the fourth side of the pit will be fenced when drilling operations cease. The fence will be constructed using 32" woven wire topped with two smooth wire strands 4" and 16" above the woven wire. Steel T-posts will be set 16.5' apart and

two stays will be used between the posts. Corner posts will be 6" or more and anchored with deadmen. The fence will be kept in repair while the pit dries. It is anticipated 4-7 days will be needed to re-establish the well pad, reserve pit. No new surface disturbance is anticipated. The reserve pit is located in the cut, with 50% of the pit volume being below the original ground level. Wildlife protection, consisting of appropriate netting, will be used to cover the reserve pit.

g) Ancillary Facilities

N/A

h) Well Site Layout

All existing wells in the vicinity of this well pad are shown on the attached Topographical Map. Access to the well pad will be shown on the Topographical Map.

i) Plans for Restoration of the Surface

The top 6 inches of topsoil material will be removed from the location and stockpiled separately on the side of the pad.

Immediately upon completion of drilling, all equipment that is not necessary for production will be removed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

All road surfaces will be removed prior to the rehabilitation of roads.

Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

All disturbed areas will be recontoured to replicate the natural slope.

The stockpiled topsoil will be evenly distributed over the disturbed area.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled between Oct. 1 and Feb. 28, or at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

The following seed mixture will be used: 3 Indian ricegrass, 2 4wing, 2 Gallefa grass, 2 Mexican cliffrose, 1 Sand dropseed.

In the event the well is abandoned an abandonment marker will be placed below ground level. The marker will supply the operator name, lease number, well name and surveyed description (~~township, range, section and either quarter-quarter or footages~~).

11) Surface and Mineral Ownership

Both the surface and the minerals are owned by the BLM.

12) Other Information

a) Archaeological Concerns: See archaeological report

The operator is responsible for informing all persons in the area who are associated with this project that they will be prosecuted for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and will contact the authorized officer (AO). Within five (5) working days, the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that the mitigation is appropriate.
- If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide the technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will be allowed to resume construction.

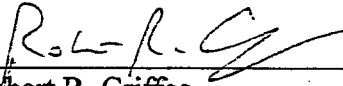
b) Threatened and Endangered Species Concerns: No known concerns.

c) Wildlife Seasonal Restrictions (yes/no): Deer Winter Range December 15 – April 30.

d) Off Location Geophysical Testing: N/A

e) Drainage crossing that require additional State or Federal approval: N/A

f) Other: Anticipated spud date, April 1, 2007.


Robert R. Griffec

Operations Engineer

February 19, 2007

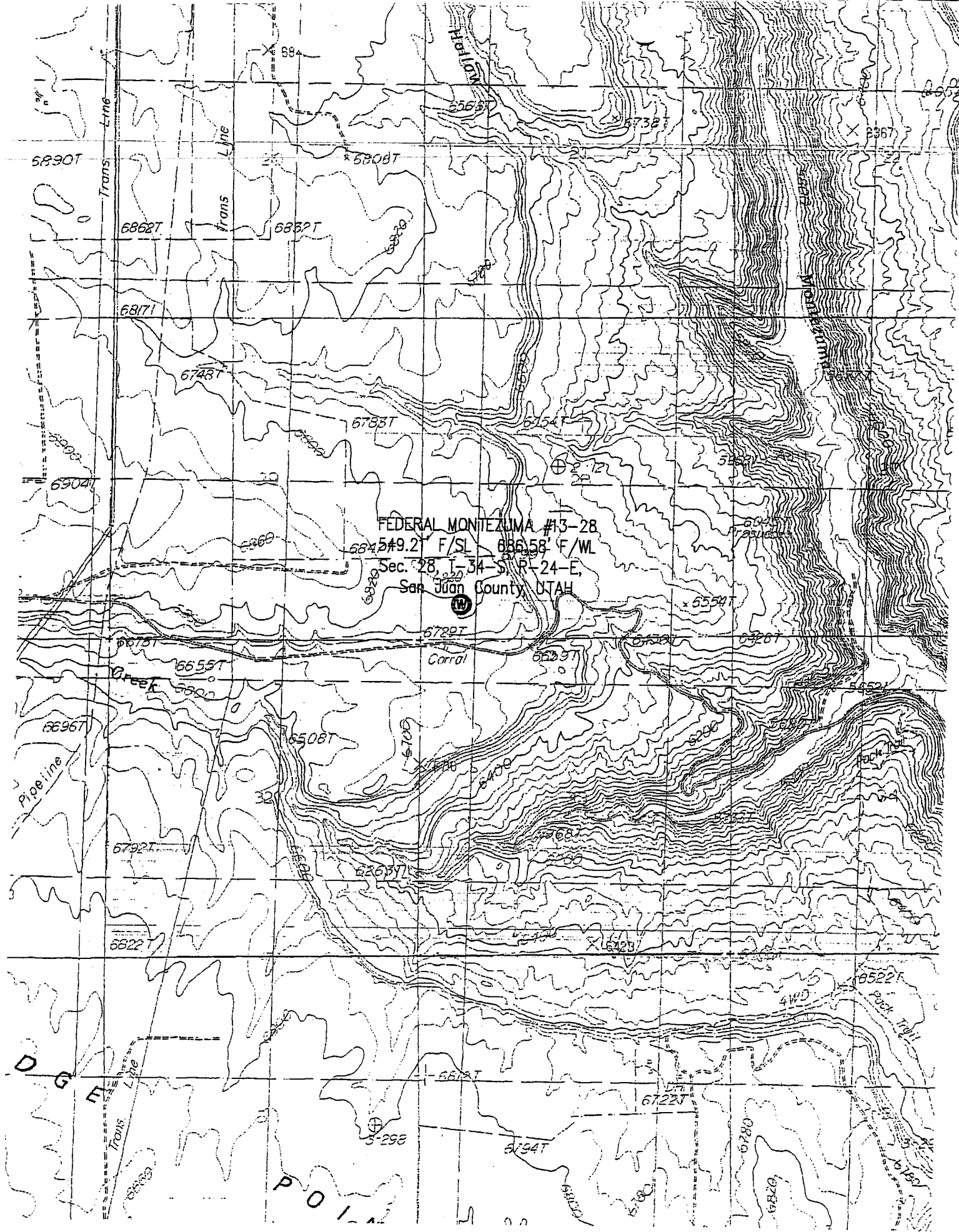
CONTACT LIST

~~Utah Projects~~

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Donal Key, Land, Permitting & Locations
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Fax: 505-326-6814

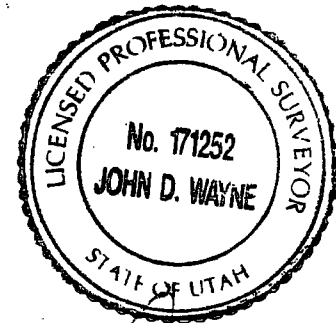
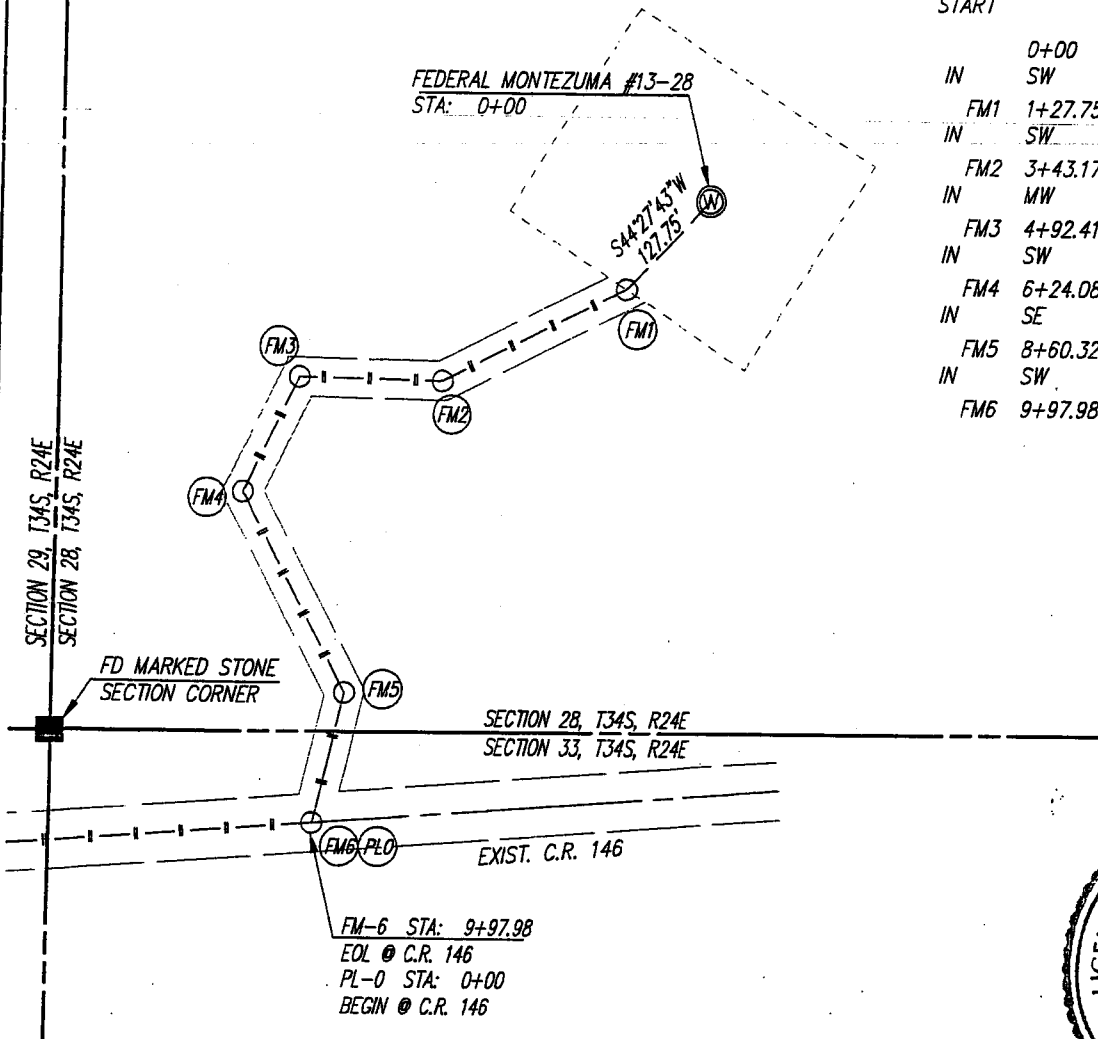
Basin Surveying, Inc
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108 Llano, Aztec NM 87410
John D. Wayne, P.L.S.
505-334-1500
Fax: 505-334-1498



FEDERAL MONTEZUMA #13-28
PROPOSED PIPELINE & ACCESS RD

START

0+00	FEDERAL MONTEZUMA #13-28	
IN SW	44 27 43	127.75
FM1	1+27.75 FM-1 @ SOUTHWEST PAD LINE	
IN SW	63 45 09	215.42
FM2	3+43.17 FM-2	
IN MW	88 59 00	149.24
FM3	4+92.41 FM-3	
IN SW	25 46 11	131.67
FM4	6+24.08 FM-4	
IN SE	28 11 40	236.24
FM5	8+60.32 FM-5	
IN SW	13 00 05	137.66
FM6	9+97.98 FM-6 EOL @ INTERSECTION C.R. 146	



John D. Wayne
Professional Surveyor
Utah Reg. No. 171252

Some information on this plat is based on information taken from previous surveys, record information, or collateral evidence and may not reflect that which may be disclosed by a complete boundary survey. This plat is not to be relied on for the establishment of surface boundaries, fences, buildings or other future improvements.

100' , 100'
1" = 200'

REVISED DATE:
DRAWING NO: 00850MONTEZUMA1D

SEC.	TWP.	RGE.	1/4 SEC.	WIDTH	LENGTH			ACRES	CROWN QUEST PROPOSED PIPELINE & ACCESS RD. FEDERAL MONTEZUMA #13-28 Sec. 28, T-34-S, R-24-E, S.L.B.M. Sec. 33, T-34-S, R-24-E, S.L.B.M. San Juan County, Utah
					FEET	RODS	MILES		
28	34S	24E	SW1/4SW1/4	40'	901.69'	54.65	0.17	0.83	
33	34S	24E	NW1/4NW1/4	40'	96.29'	5.84	0.02	0.09	
TOTALS					997.98'	60.49	0.19	0.92	SCALE: 1"=200' DATE: 02/12/07



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor



March 12, 2007

CrownQuest Operating
303 Veterans Airpark Ln.
Midland, TX 79705

Re: Husky Montezuma Federal 13-28 Well, 549' FSL, 687' FWL, SW SW,
Sec. 28, T. 34 South, R. 24 East, San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-30827.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: San Juan County Assessor
Bureau of Land Management, Moab District Office

Operator: CrownQuest Operating
Well Name & Number Husky Montezuma Federal 13-28
API Number: 43-037-30827
Lease: UTU 84682

Location: SW SW **Sec.** 28 **T.** 34 South **R.** 24 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office
(801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.